ORDER No. ACED031220C7
C4

Service Manual

AUTOMOTIVE AFTERMARKET

COMPACT disc DIGITAL AUDIO TEXT WMA MP3

CQ-C1300U

Removable Full Front Panel MP3 WMA CD Player / Receiver with CD Changer Control

SPECIFICATIONS

Specifications*

General	
Power Supply	**DC 12V (11V - 16V),** **Test Voltage 14.4V** **Negative Ground**
Current Consumption	**Less than 2.2A (CD mode ; 0.5W 4-speaker)**
Maximum Power Output	**50W×4ch (at 1kHz)**
Tone Adjustment Range	**Bass ; ±12dB at 100Hz** **Treble ; ±12dB at 10kHz**
Speaker Impedance	**4-8 Ω**
Pre-Amp Output Voltage	**2.5V (CD play mode ; 1kHz 0dB)**
Pre-Amp Output Impedance	**200 Ω**
FM Stereo Radio	
Frequency Range	**87.9MHz - 107.9MHz**
Usable Sensitivity	**10.2dBf. (0.9 μV, 75 Ω)**
50dB Quieting Sensitivity	**15.2dBf. (1.6 μV, 75 Ω)**
Frequency Response	**30Hz-15kHz(±3dB)**
Alternate Channel Sensitivity	**75dB**
Stereo Separation	**35dB(1kHz)**
Image Response Ratio	**75dB**

IF Response Ratio	**100dB**
Signal to Noise Ratio	**62dB**
AM Radio	
Frequency Range	**530 - 1,710kHz**
Usable Sensitivity	**27dB/ μ V (11V, S/N 20dB)**
CD Player	
Sampling Frequency	**8 Times Oversampling**
DA Converter	**4 DAC System**
Pick-Up Type	**Astigma 3-beam**
Light Source	**Semiconductor Laser**
Wave Length	**780nm**
Frequency Response	**20Hz to 20,000Hz (±1dB)**
Signal to Noise Ratio	**96dB**
Total Harmonic Distortion	**0.01%(1kHz)**
Wow and Flutter	**Below measurable limits**
Channel Separation	**75dB**
Dimensions**	**7"×1-15/16"×6×1/8" / (178×50×155mm)**
Weight**	**3lbs 1oz (1.4kg)**

*** Specifications and the design are subject to possible modification without notice due to improvements.**

**** Dimensions and Weight shown are approximate.**

-Above specifications comply with EIA standards.

Panasonic®

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by ⚠ in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

1. ABOUT LEAD FREE SOLDER (PbF)

Distinction of PbF PCB:

PCBs (manufactured) using lead free solder will have a PbF stamp on the PCB.

Caution :

- Pb free solder has a higher melting point than standard solder;

Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a soldering iron with temperature control and adjust it to 700 ± 20°F (370 ± 10°C). In case of using high temperature soldering iron, please be careful not to heat too long.

- Pb free solder will tend to splash when heated too high (about 1100°F/ 600°C)

- This lead free solder will be used for the products after serial No. 1,000,001.

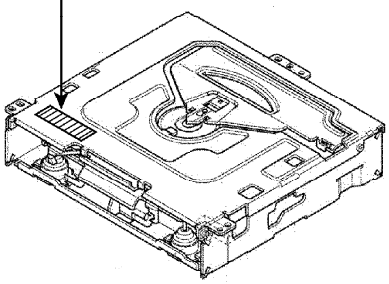
2. LASER PRODUCTS

CAUTION:

This product utilizes a laser diode with the unit turned "on", laser radiation is emitted from the pickup lens.
Laser radiation from the pickup lens is safety level, but be sure the followings:

1. Do not disassemble the optical pickup unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pickup lens for a long time.

DANGER! Visible and invisible laser radiation when open. Avoid direct exposure to beam.



Deck Ass'y (Upper Side)

Caution
This Product utilizes a laser.
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

3. FEATUERS

- Digital servo for reliable playback.

- PLL (Phase Locked Loop) synthesized tuning.

- 18-FM, 6-AM presets with preset scan.

- Removable face plate.

- MP3/WMA Playback from CD-R/RW.

- CD Changer Control.

4. REPLACING THE FUSE

Use fuses of the same specified rating (15amps). Using different substitutes or fuses with higher ratings, or connecting the product directly without a fuse, could cause fire or damage to the stereo unit.

5. MAINTENANCE

Your product is designed and manufactured to ensure a minimum of maintenance. Use a dry, a soft cloth for routine exterior cleaning. Never use benzine, thinner or other solvents.

6. NOTES

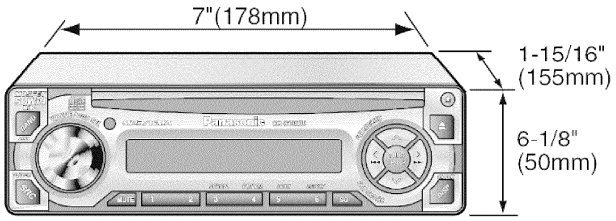
[RADIO BLOCK]

Do not align the AM/FM package block. When the package block is necessary, it will be supplied already aligned at the factory.

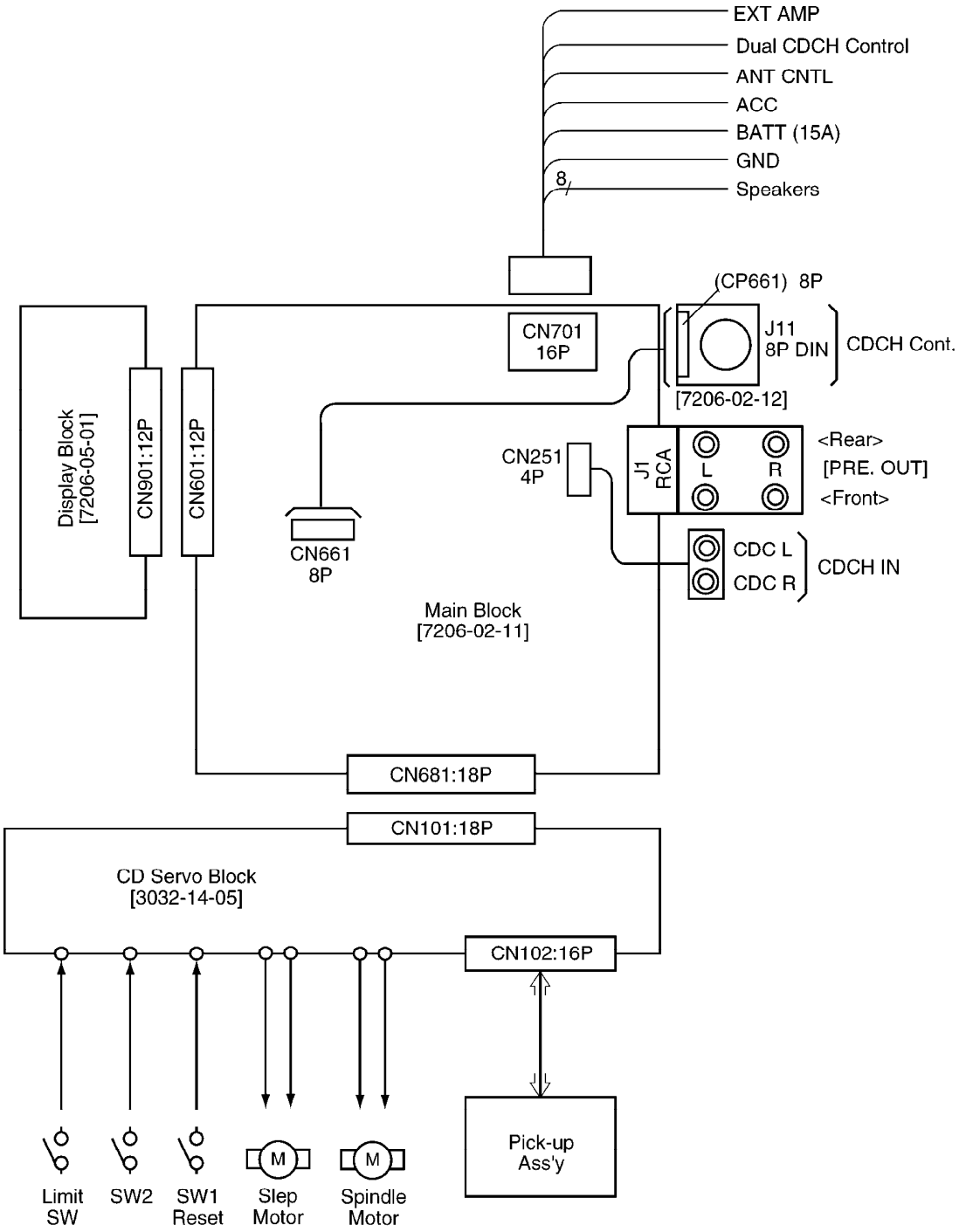
[CD DECK BLOCK]

This model has no servo alignment points because microcomputer controls the servo circuit.

7. DIMENSIONS



8. WIRING CONNECTION



9. TERMINALS DESCRIPTION

9.1. Main Block

IC601 : YESAM229

Pin No.	Port	Description	I/O	(V)		
				FM	AM	CD
1	CDC SENS	CD changer detect	I	4.9	4.9	4.9
2	ST	Radio station detect	I	4.9	4.9	4.9
3	EJECT	Eject SW	I	0	0	0
4	AVSS	Ground	-	0	0	0
5	EXT.MUTE	External mute	O	5.0	5.0	5.0
6	CDC 1/2	(Ground pull down)	-	5.1	5.1	5.1
7	AVREF	(Conecting to +5V)	-	5.1	5.2	5.2
8	SUB SO	LCD data	I	5.1	5.1	5.1
9	LCD DI	LCD data	O	5.0	5.0	5.0
10	SUB SI	LCD clock	O	5.1	5.1	5.1
11	CH DATA	(Ground pull down)	-	0	0	0
12	NC	-	-	-	-	-
13	CH CLK	(Ground pull down)	-	0	0	0
14	CH REM	(Ground pull down)	-	5.1	5.1	5.1
15	NC	-	-	-	-	-
16	CD SO	CD data output	I	2.8	2.8	2.8
17	CD SI	CD data input	O	0	0	0
18	CD SCK	CD clock	O	5.0	5.0	5.0
19	LCD CE	LCD chip enable	O	0	0	0
20	CD RST	CD reset	O	5.1	5.1	5.1
21	AMP CNT	Amp control signal	O	5.1	5.1	5.1
22	ANT CNT	ANT control signal	O	5.1	5.1	0
23	AMP MUTE	Amp mute control	O	5.1	5.1	5.1
24	CD STB	CD strobe	O	3.8	3.8	3.9
25	CD A0	CD A0	O	0	0	5.1
26	NC	-	-	-	-	-
27	NC	-	-	-	-	-
28	NC	-	-	-	-	-
29	NC	-	-	-	-	-
30	NC	-	-	-	-	-
31	NC	-	-	-	-	-
32	NC	-	-	-	-	-
33	VSS1	Ground	-	0	0	0
34	NC	-	-	-	-	-
35	NC	-	-	-	-	-
36	SCL	Audio control serial clock	O	5.1	5.1	5.1
37	SDA	Audio control data	O	5.1	5.1	5.1
38	S LED	S LED drive signal	O	0	0	0
39	EJ ILL	Eject Led drive signal	O	5.1	5.1	5.1
40	NC	-	-	-	-	-

Pin No.	Port	Description	I/O	(V)		
				FM	AM	CD
41	PLL DI	PLL data	O	0	0	0
42	PLL DO	PLL data	I	5.0	5.0	5.0
43	PLL CLK	PLL data clock	O	5.1	5.1	5.1
44	PLL CE	PLL chip select	O	0	0	0
45	ROM CS	ROM chip select	O	5.1	5.1	5.1
46	PANEL	Panel switch signal	I	4.8	4.8	4.8
47	OP/CL	Open/close detect	I	0	0	0
48	LCD5V CNT	LCD 5V control	O	0	0	0
49	NC	-	-	-	-	-
50	NC	-	-	-	-	-
51	NC	-	-	-	-	-
52	NC	-	-	-	-	-
53	EEPROM DO	(Ground pull down)	-	0	0	0
54	AF MUTE	Audio mute signal	O	5.1	5.1	5.1
55	ILL CNT	Illumination control	O	5.1	5.1	5.1
56	NC	-	-	-	-	-
57	MAIN CONT	Main power control	O	5.1	5.1	5.1
58	NC	-	-	-	-	-
59	NC	-	-	-	-	-
60	RESET	System reset	I	5.1	5.1	5.1
61	RM DATA	Remote control data	I	5.0	5.0	5.0
62	BATT	Battery detekut	I	5.1	5.1	5.1
63	NC	-	-	-	-	-
64	CDC STB	(Ground pull down)	-	0	0	0
65	ROTARY 1	Rotary encoder input 1	I	5.0	5.0	5.0
66	ROTARY 2	Rotary encoder input 2	I	0	0	0
67	VSS0	Ground	-	0	0	0
68	VDD1	+5V power supply	-	5.2	5.2	5.2
69	X2	Crystal oscillator	-	3.1	3.1	3.1
70	X1	Crystal oscillator	-	2.4	2.4	2.4
71	TEST	(Test terminal)	-	0	0	0
72	XT2	Crystal oscillator	-	2.8	2.8	2.8
73	XT1	Crystal oscillator	-	2.4	2.4	2.4
74	VDD0	+5V power supply	-	5.2	5.2	5.2
75	AVDD	+6V power supply	-	5.2	5.2	5.2
76	VSM	VSM	I	0	0	0
77	ACC	ACC detect	I	4.8	4.8	4.8
78	INIT/B	(Ground pull down)	-	0	0	0

40	NC	-	-	-	-	-	78	INIT/B	(Ground pull down)	-	0	0	0

Pin No.	Port	Description	I/O	(V)		
				FM	AM	CD
79	INIT/A	(Ground pull down)	-	0	0	0
80	LEVEL L	(Ground pull down)	-	0	0	0

9.2. Display Block

IC901 : YEAMLC75854T

Pin No.	Port	Description	I/O	(V)
1-35	S1-35	LCD segment data	O	2.5
36-39	NC	-	-	-
40-43	COM1-4	LCD common	O	2.5
44	KS1	Not used	-	-
45-49	KS2-6	Key scan	O	5.0
50-54	KI1-5	Key data	I	0
55	TEST	(Connecting to ground)	-	0
56	VDD	+5V power supply	-	5.0
57	VDD1	VDD1 filter terminal	-	3.3
58	VDD2	VDD2 filter terminal	-	1.7
59	VSS	Ground	-	0
60	OSC	Oscillator terminal	-	3.9
61	DO	Key data output	O	5.0
62	CE	LCD driver chip enable	I	0
63	CLK	LCD clock	I	4.9
64	DI	LCD data	I	4.9

9.3. CD Servo Block

IC401 : YESAM176

Pin No.	Port	Descriptions	I/O	(V)
1	CVSS1	GND	-	0
2	-	-	-	-
3	CVSS2	GND	-	0
4	DVSS1	I/O system (3.3V) power supply	-	3.3
5	A10	Address bus of FLASH ROM	O	0
6	-	-	-	-
7	A11	Address bus of FLASH ROM	O	3.3
8	A12		O	3.3
9	A13		O	3.3
10	A14		O	3.3
11	A15		O	3.3
12	/ CVDD1	CORE CPU system (1.6V) power supply	-	1.6
13	-	-	-	-
14	DVSS1	GND	-	0
15	CVSS3	GND	-	0
16	/ CVDD2	I/O system (3.3V) power supply	-	1.6
17	-	-	-	-
18	-	-	-	-
19	READY	-	-	3.3
20	nPS	FLASH ROM selection signal	O	3.3
21	-	-	-	-
22	-	-	-	-
23	R/W	Lead/light signal to FLASH ROM	O	3.3
24	nMSTRB	Memory access signal	O	3.3
25	-	-	-	-
26	/MSC	-	-	3.3
27	MUTE	Mute signal output (H:Mute on)	O	0
28	-	-	-	-
29	-	-	-	-
30	/HOLD	-	-	3.3
31	SUBO	SUBO input	I	0
32	-	Operation mode setting (external pull-up)	I	3.3
33	DVDD2	I/O system (3.3V) power supply	-	3.3
34	CVSS4	GND	-	0
35	(GND)	GND	I	0
36	-	-	-	-
37	CVSS5	GND	-	0

Pin No.	Port	Descriptions	I/O	(V)
38	-	-	-	-
39	-	-	-	-
40	DVSS2	GND	-	0
41	CLK C M	AUDIO bit clock input	I	1.6
42	SCK	Clock input	I	3.3
43	LRCK C M	AUDIO L/R identifying signal input	I	1.6
44	CDFS	Serial frame sink signal input	I	2.6
45	DATA M C	AUDIO serial data input	I	1.6
46	-	-	-	-
47	SI	Serial data input	I	0
48	CLK M C	AUDIO bit clock output	O	1.6
49	SCK	Clock input	I	3.3
50	CVSS6	GND	-	0
51	-	-	-	-
52	CVDD3	CORE CPU system (1.6V) power supply	-	1.6
53	LRCK M C	AUDIO L/R identifying signal output	O	1.6
54	CDFS	Serial frame sink signal input	I	2.4
55	-	-	-	-
56	DVDD3	I/O system (3.3V) power supply	-	3.3
57	DVSS3	GND	-	0
58	REST SW	Mechanics deck REST SW input	I	3.3
59	DATA M C	AUDIO serial data output	O	1.6
60	SO	Serial data output	O	1.2
61	-	-	-	-
62	-	-	-	-
63	/NMI	-	-	3.3
64	/INT0	-	-	3.3
65	/INT1	-	-	3.3
66	BLKCK	Subcode block clock pulse input	I	0
67	/INT3	-	-	3.3
68	DVDD4	CORE CPU system (1.6V) power supply	-	1.6
69	SW1	Mechanics deck SW1 input	I	0
70	CVSS7	GND	-	0

Pin No.	Port	Descriptions	I/O	(V)
71	MCLK	Clock output (To Servo DSP)	O	3.3
72	DVSS4	GND	-	0
73	MLD	Command load signal output (To Servo DSP)	I	3.3
74	MDATA	Command data output (To Servo DSP)	O	3.3
75	DVDD4	I/O system (3.3V) power supply	-	3.3
76	DVSS5	GND	-	0
77	-	Clock mode setting (L fixation)	I	0
78	-	Clock mode setting (H fixation)	I	3.3
79	-	Clock mode setting (L fixation)	I	-
80	-	-	-	-
81	SW2	Mechanics deck SW2 input	I	0
82	-	-	-	-
83	EMU0	-	-	0
84	EMU/ OFF	-	-	3.3
85	TDO	-	-	3.3
86	TDI	-	-	0
87	/TRST	-	-	3.3
88	TCK	-	-	0
89	TMS	-	-	3.3
90	CVSS8	GND	-	3.3
91	CVDD5	CORE CPU system (1.6V) power supply	-	0
92	(GND)	GND	I	1.6
93	DVSS6	GND	-	0
94	-	-	-	-
95	CLKENA	Oscillation output Cainabl signal	O	3.3
96	×1	Crystal Connection	O	0
97	×2	Crystal Connection	I	0
98	(VDD)	Reset signal input	I	1
99	D0	Data base of FLASH ROM	I/O	3.4
100	D1		I/O	0
101	D2		I/O	0
102	D3		I/O	0
103	D4		I/O	0
104	D5		I/O	0
105	A16	Address bus of FLASH ROM	O	0
106	DVSS7	GND	-	0

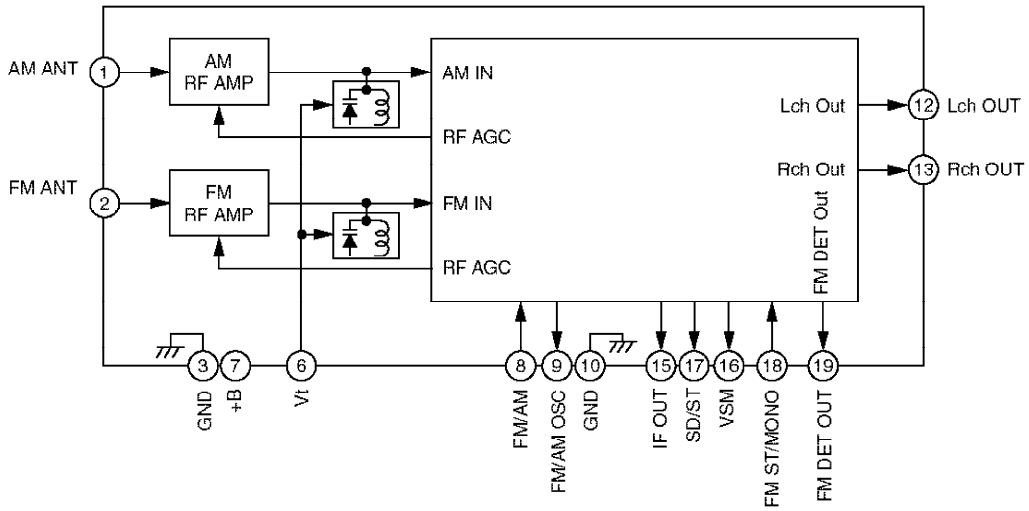
Pin No.	Port	Descriptions	I/O	(V)
107	A17	Address bus of FLASH ROM	O	3.3
108	A18		O	0
109	A19	Address bus of FLASH ROM	O	0
110	A20		O	0
111	CVSS9	GND	-	0
112	DVDD5	I/O system (3.3V) power supply	-	3.3
113	D6	Data bus of FLASH ROM	I/O	0
114	D7		I/O	0
115	D8		I/O	0
116	D9		I/O	0
117	D10		I/O	0
118	D11	Data bus of FLASH ROM	I/O	0
119	D12		I/O	0
120	STAT	Status signal input	I	0.4
121	D13	Data path of FLASH ROM	I/O	0
122	D14		I/O	0
123	D15		I/O	0
124	SQCK	SOCK clock output(To Servo DPS)	O	3.2
125	CVDD6	CORE CPU system (1.6V) power supply	-	1.6
126	CVSS10	GND	-	0
127	-	-	-	-
128	DVSS8	I/O system (3.3V) power supply	-	0
129	-	-	-	-
130	DVDD6	I/O system (3.3V) power supply	-	3.3
131	A0	Address bus of FLASH ROM	O	0
132	A1		O	0
133	A2		O	3.3
134	A3		O	3.3
135	/RST	Reset signal output(To Servo DSP)	O	3.3
136	A4	Address bus of FLASH ROM	O	3.3
137	A5		O	0
138	A6		O	3.3
139	A7		O	3.3
140	A8		O	0
141	A9		O	3.3
142	CVDD7	CORE CPU system (1.6V) power supply	-	1.6
143	-	-	-	-

Pin No.	Port	Descriptions	I/O	(V)
144	DVSS9	GND	-	0

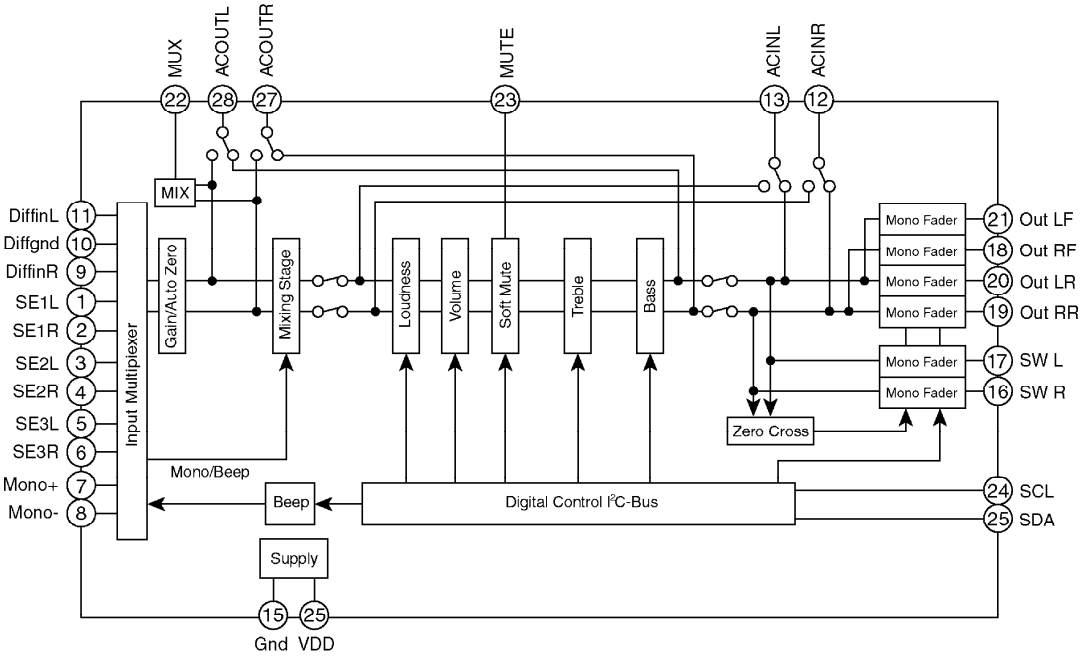
10. PACKAGE AND IC BLOCK DIAGRAM

10.1. Main Block

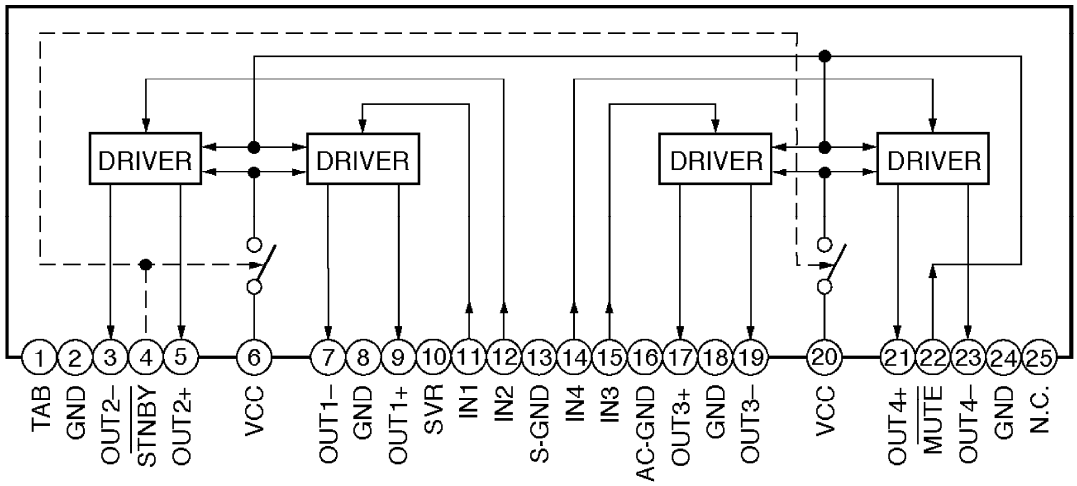
PA51 : C5BA00000109



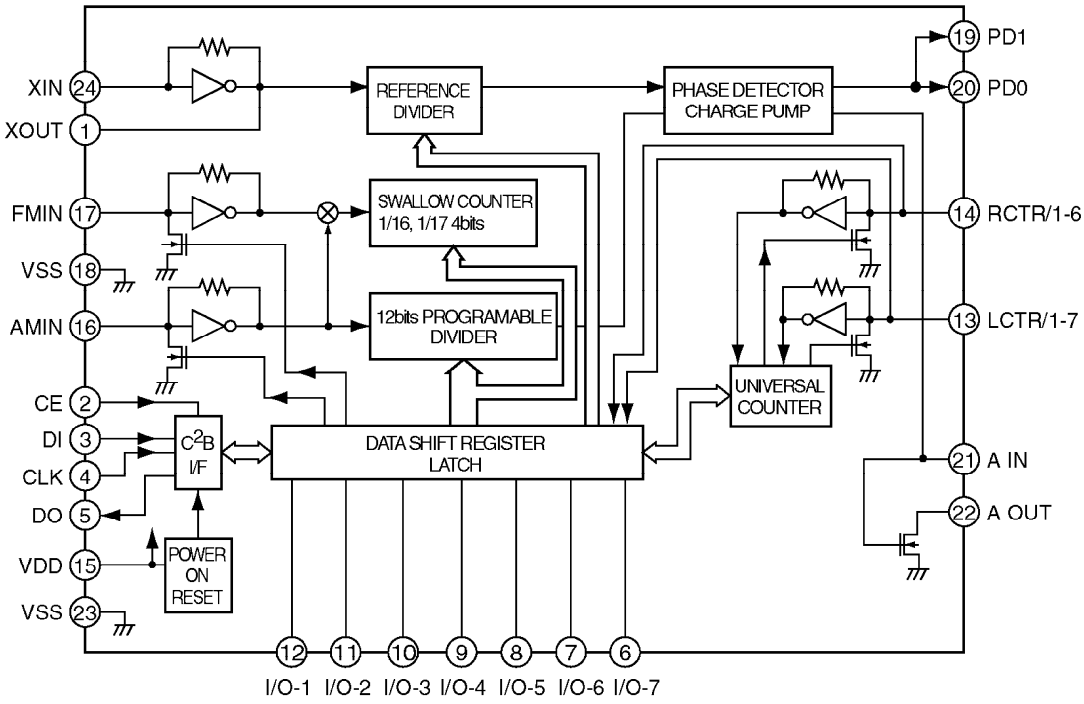
IC201 : C1BB00000543



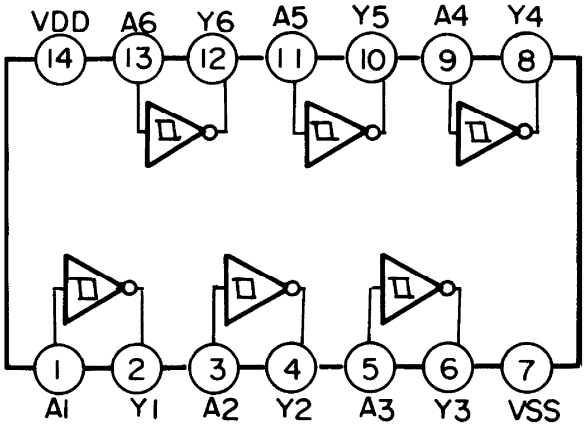
IC271 : C1EA00000021



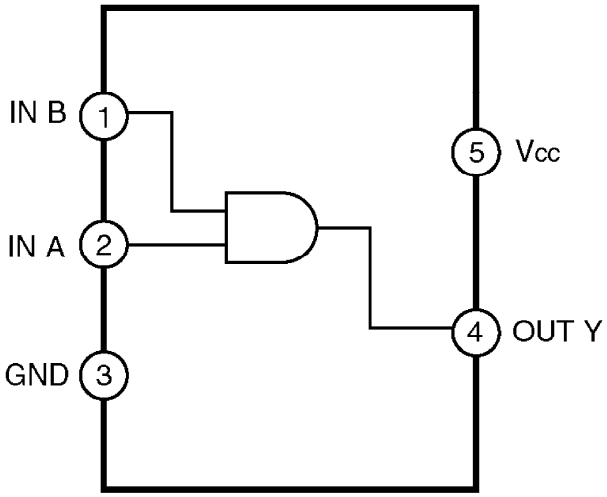
IC401 : YESAM194



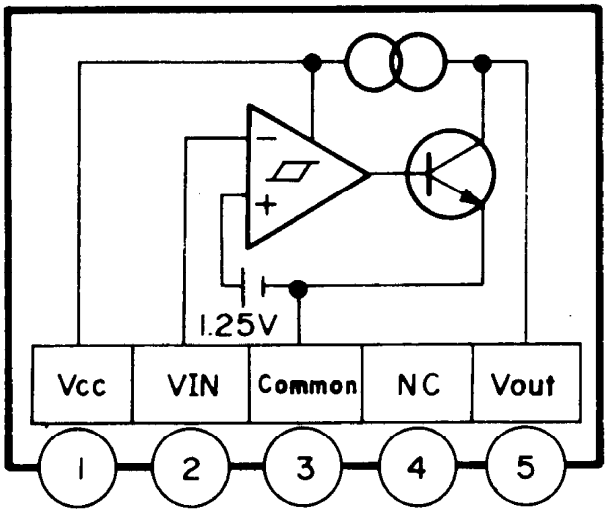
IC651 : YESAM183



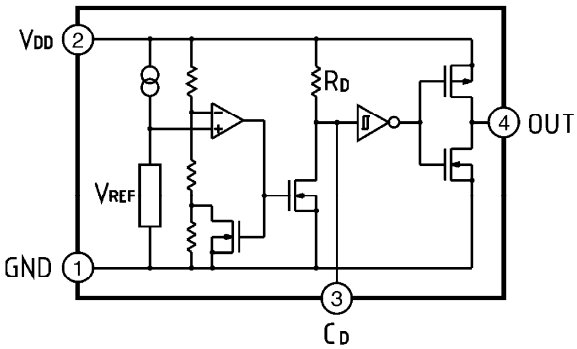
IC681 : YESAM228



IC701 : YEAMM51945AL

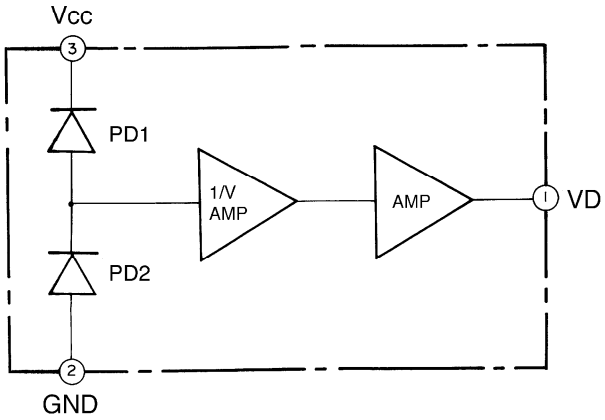


IC702 : YESAM234



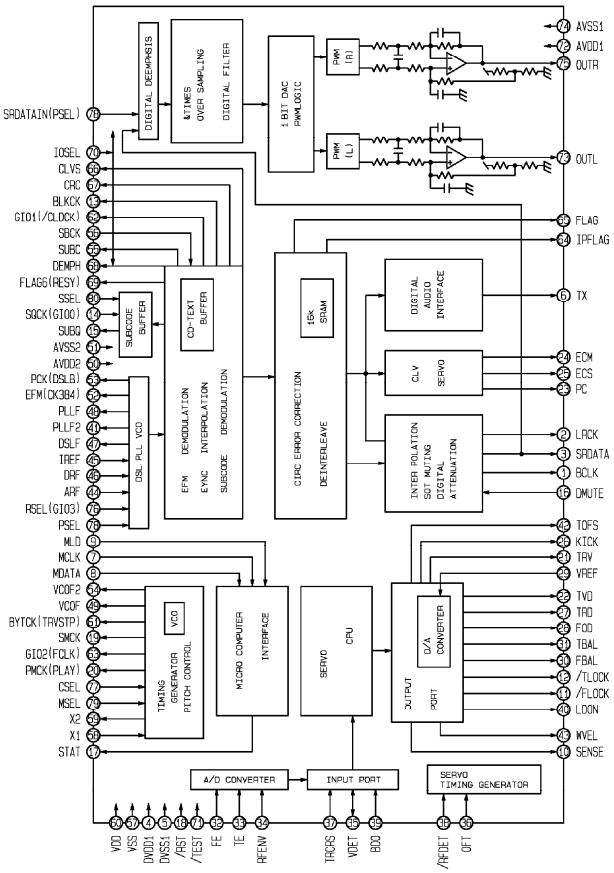
10.2. Display Block

IC902 : PNA4602MC

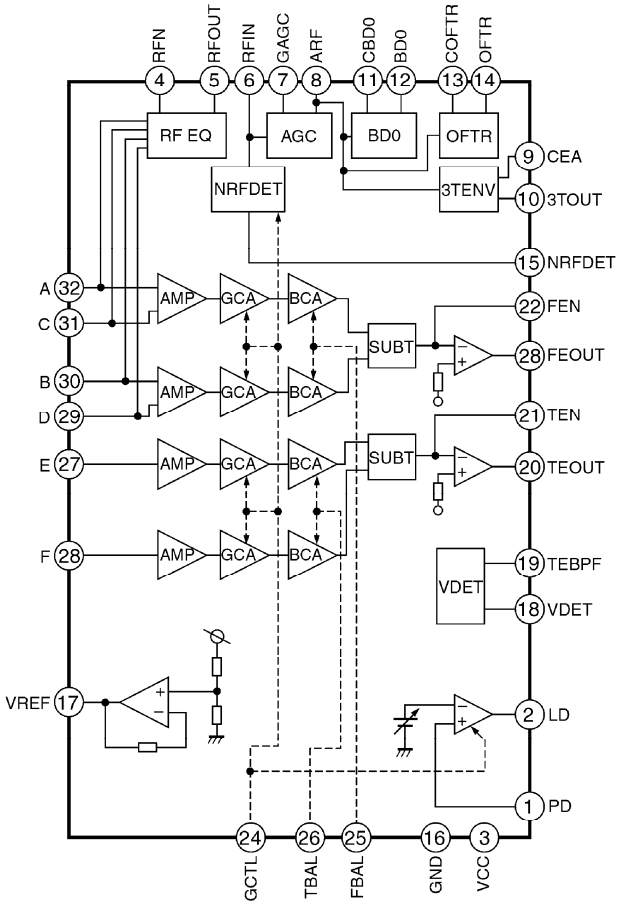


10.3. CD Servo Block

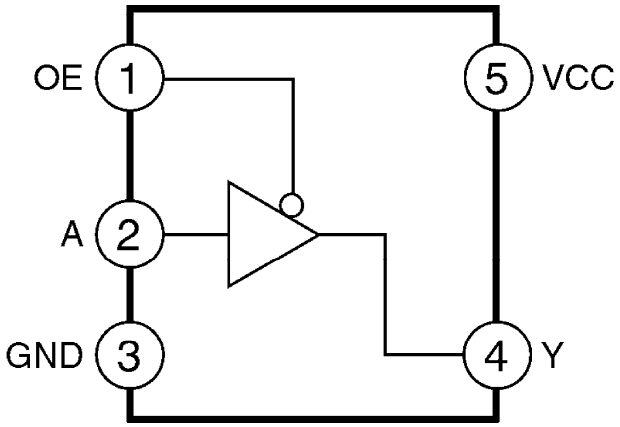
IC201 : MN6627482WB



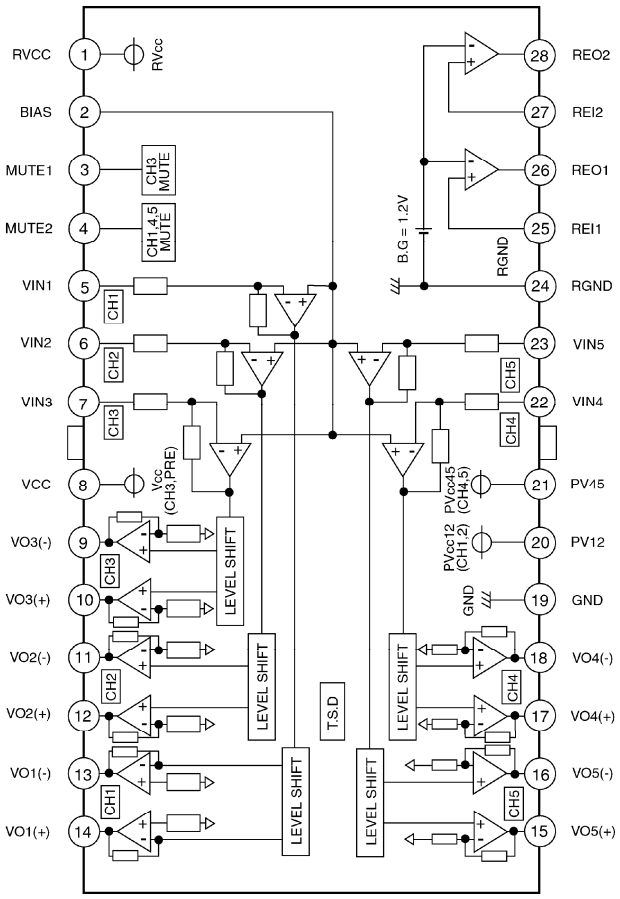
IC202 : YESAM163



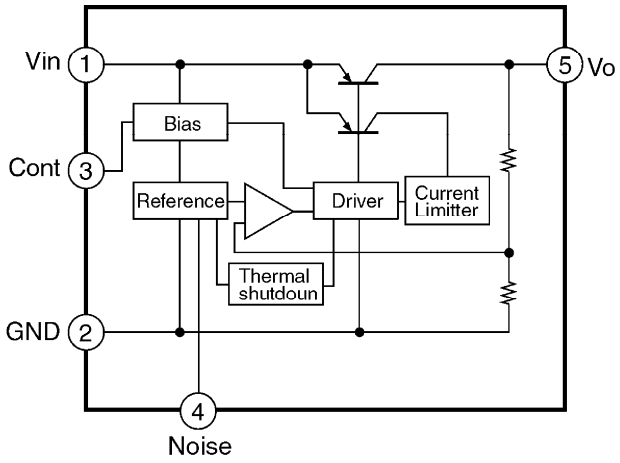
IC409 : YESAM167



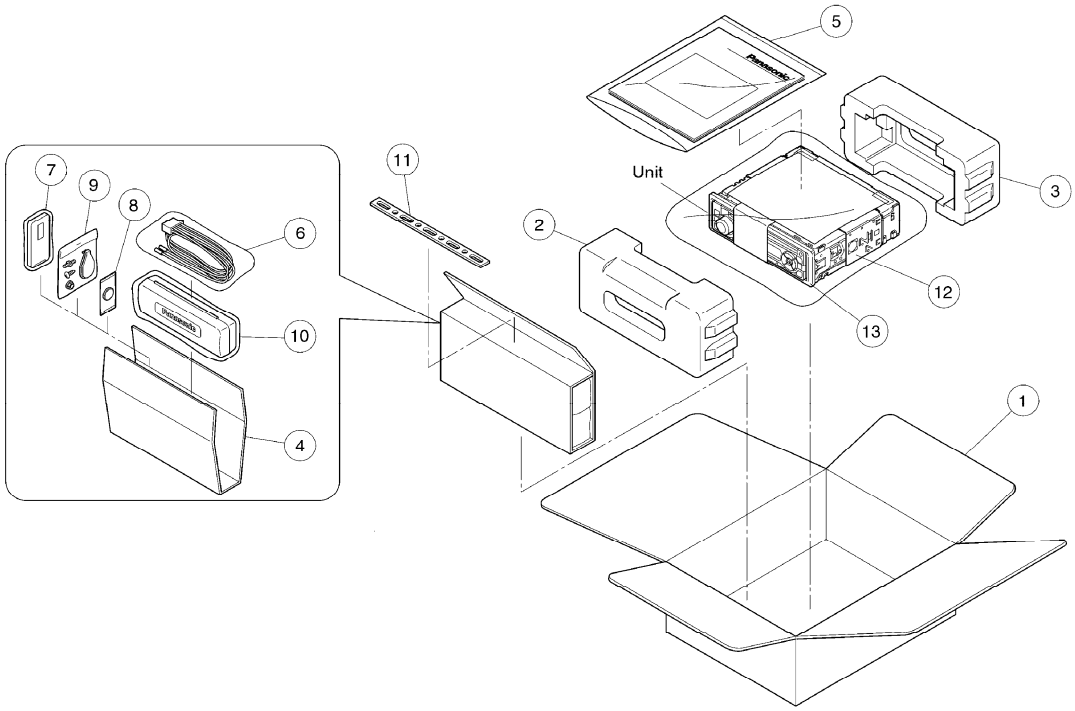
IC203 : YESAM166



IC411 : YESAM178



11. PACKING PARTS LIST



- Item numbers listed below should not order regular spare parts. (not available)

Item No.	Part No.	Part Name & Description	Q'ty	Remarks
1	-	Inner Carton	1	Not available
2	-	Packing Pad (Front)	1	Not available
3	-	Packing Pad (Rear)	1	Not available
4	-	Sleeve	1	Not available
5	-	Operating Instructions Kit	1	Not available
	YEFM284144	Operating Instructions	(1)	
	-	Warranty Card	(1)	Not available
	-	Service Center List	(1)	Not available
6	YESAJ01223	Power Connector	1	
7	YESFZ259	Remote Control Unit	1	
8	CR2025/1F	Lithium Battery	1	
9	YESFZ257	Screw Kit	1	
10	YEFA131839	Removable Face Plate Case	1	
11	YESFX021127	Rear Support Strap	1	
12	YESFX018006	Mounting Collar	1	
13	YESFC05018	Trim Plate	1	

12. REPLACEMENT PARTS LIST

Notes :

1. Be sure to make your orders of replacement parts according to this list.

2. Important safety notice: Components, identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

3. Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a road map.

4. The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

- Order intake period is basically six months after the first shipment.

Ref. No.	Part No.	Part Name & Description	Remarks
[7206-02-11] Main Block			
IC's and TRANSISTORs			
IC201	C1BB00000543	IC	
IC271	C1EA00000021	IC	
IC401	YESAM194	IC	
IC601	YESAM229	IC	
IC651	YESAM183	IC	
IC681	YESAM228	IC	
IC701	YEAMM51945AL	IC	
IC702	YESAM234	IC	
IC720	YESAM232	IC	
IC783	YESAM227	IC	
PA51	C5BA00000109	Tuner Pack	
Q55	YESAN075	Transistor	
Q262	B1GBHBEA0004	Transistor	
Q266	B1GBHBEA0004	Transistor	
Q362	B1GBHBEA0004	Transistor	
Q366	B1GBHBEA0004	Transistor	
Q411	YEAN2SK536TB	FET	
Q660	YESAN075	Transistor	
Q661	YEANA114TK	Transistor	
Q681	YEANC114YKX	Transistor	
Q701	YESAN073	Transistor	
Q703	B1BCCF000017	Transistor	
Q704	YESAN076	Transistor	
Q704	YESAN076	Transistor	
Q705	YEAND1859T	Transistor	
Q708	YESAN074	Transistor	
Q720	YEANHQ1F3PT1	Transistor	
Q721	YEANC114YKX	Transistor	
Q722	YEANHQ1F3PT1	Transistor	
Q723	YEANC114YKX	Transistor	
Q761	B1GDCFJN0004	Transistor	
Q762	YESAN074	Transistor	
Q780	YEANC114YKX	Transistor	

Ref. No.	Part No.	Part Name & Description	Remarks
Q781	YESAN074	Transistor	
DIODEs			
D270	YESAD120	Diode	
D271	YESAD120	Diode	
D272	YESAD120	Diode	
D273	YESAD120	Diode	
D274	YESAD120	Diode	
D275	YESAD120	Diode	
D276	YESAD120	Diode	
D277	YESAD120	Diode	
D650	B0ACCK000005	Diode	
D682	YEADRB501VT	Diode	
D683	YESAD120	Diode	
D684	YESAD115	Zener Diode	
D685	YESAD115	Zener Diode	
D686	YESAD115	Zener Diode	
D687	YESAD115	Zener Diode	
D688	YESAD115	Zener Diode	
D689	YESAD115	Zener Diode	
D702	1SS133T77	Diode	
D703	YESAD096	Zener Diode	
D705	YEADRB501VT	Diode	
D706	YESAD117	Diode	
D707	YEADRB051L40	Diode	
D709	YESAD122	Zener Diode	
D710	YESAD119	Zener Diode	
D711	YESAD123	Zener Diode	
D714	YESAD121	Diode	
D719	YESAD128	Diode	
D768	YESAD095	Zener Diode	
D781	YESAD123	Zener Diode	
D782	YESAD098	Diode	
CAPACITORs			
C51	YECUS1H470JC	Ceramic, 47pF 50WV	
C53	YESCC234	Ceramic, 0.01 μF 50WV	
C54	YESCC306	Electrolytic, 330 μF 10WV	
C55	YESCC234	Ceramic, 0.01 μF 50WV	
C61	YESCC318	Ceramic, 0.027 μF 50WV	
C62	YESCC318	Ceramic, 0.027 μF 50WV	
C65	YESCC233	Ceramic, 0.001 μF 50WV	
C67	YESCC234	Ceramic, 0.01 μF 50WV	
C201	F1J1H681A025	Ceramic, 680pF 50WV	
C202	F1J1H681A025	Ceramic, 680pF 50WV	
C203	YESCC314	Electrolytic, 3.3 μF 50WV	
C204	YESCC191	Ceramic, 2.2 μF	
C208	YESCC230	Ceramic, 0.33 μF 16WV	
C209	YESCC191	Ceramic, 2.2 μF	
C210	YESCC228	Ceramic, 0.1 μF 16WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C220	YESCC312	Electrolytic, 2.2 μ F 50WV	
C261	YESCC282	Electrolytic, 4.7 μ F 50WV	
C263	YESCC229	Ceramic, 1 μ F 16WV	
C265	YESCC282	Electrolytic, 4.7 μ F 50WV	
C267	YESCC229	Ceramic, 1 μ F 16WV	
C271	YESCC235	Ceramic, 0.0047 μ F 50WV	
C272	YESCC235	Ceramic, 0.0047 μ F 50WV	
C275	YESCC312	Electrolytic, 2.2 μ F 50WV	
C276	YESCC308	Electrolytic, 100 μ F 16WV	
C277	YESCC273	Electrolytic, 1 μ F 50WV	
C278	YESCC228	Ceramic, 0.1 μ F 16WV	
C279	YESCC310	Electrolytic, 4700 μ F 16WV	
C291	YESCC228	Ceramic, 0.1 μ F 16WV	
C301	F1J1H681A025	Ceramic, 680pF 50WV	
C302	F1J1H681A025	Ceramic, 680pF 50WV	
C303	YESCC314	Electrolytic, 3.3 μ F 50WV	
C304	YESCC191	Ceramic, 2.2 μ F	
C308	YESCC230	Ceramic, 0.33 μ F 16WV	
C309	YESCC276	Electrolytic, 10 μ F 16WV	
C310	YESCC313	Electrolytic, 220 μ F 10WV	
C320	YESCC312	Electrolytic, 2.2 μ F 50WV	
C325	YECUS1H221JC	Ceramic, 220pF 50WV	
C361	YESCC282	Electrolytic, 4.7 μ F 50WV	
C363	YESCC229	Ceramic, 1 μ F 16WV	
C365	YESCC282	Electrolytic, 4.7 μ F 50WV	
C367	YESCC229	Ceramic, 1 μ F 16WV	
C371	YESCC235	Ceramic, 0.0047 μ F 50WV	
C372	YESCC235	Ceramic, 0.0047 μ F 50WV	
C375	YESCC276	Electrolytic, 10 μ F 16WV	
C378	YESCC228	Ceramic, 0.1 μ F 16WV	
C401	YECUS1H150JC	Ceramic, 15pF 50WV	
C402	YECUS1H150JC	Ceramic, 15pF 50WV	
C403	YESCC275	Electrolytic, 100 μ F 6.3WV	
C404	YESCC234	Ceramic, 0.01 μ F 50WV	
C405	F1J1H101A025	Ceramic, 100pF 50WV	
C411	YESCC234	Ceramic, 0.01 μ F 50WV	
C412	YESCC231	Ceramic, 0.022 μ F 25WV	
C413	ECQV1H224JL2	Plastic Film, 0.22 μ F 50WV	
C417	YESCC311	Electrolytic, 680 μ F 16WV	
C421	YECUS1H470JC	Ceramic, 47pF 50WV	
C601	YESCC279	Electrolytic, 0.047 μ F 6.3WV	
C602	YESCC315	Electrolytic, 330 μ F 6.3WV	
C605	YESCC234	Ceramic, 0.01 μ F 50WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C628	YESCC228	Ceramic, 0.1 μF 16WV	
C631	YESCC229	Ceramic, 1 μF 16WV	
C634	YECUS1H220JC	Ceramic, 22pF 50WV	
C635	YECUS1H220JC	Ceramic, 22pF 50WV	
C650	YESCC234	Ceramic, 0.01 μF 50WV	
C660	YESCC275	Electrolytic, 100 μF 6.3WV	
C681	YESCC228	Ceramic, 0.1 μF 16WV	
C683	YESCC282	Electrolytic, 4.7 μF 50WV	
C701	YESCC308	Electrolytic, 100 μF 16WV	
C702	YESCC282	Electrolytic, 4.7 μF 50WV	
C703	YESCC308	Electrolytic, 100 μF 16WV	
C704	YESCC283	Electrolytic, 47 μF 6.3WV	
C705	YESCC273	Electrolytic, 1 μF 50WV	
C706	YESCC312	Electrolytic, 2.2 μF 50WV	
C708	YESCC313	Electrolytic, 220 μF 10WV	
C709	YESCC309	Electrolytic, 47 μF 16WV	
C710	YESCC309	Electrolytic, 47 μF 16WV	
C711	YESCC229	Ceramic, 1 μF 16WV	
C712	YESCC229	Ceramic, 1 μF 16WV	
C713	YESCC255	Ceramic, 0.047 μF 50WV	
C715	YESCC311	Electrolytic, 680 μF 16WV	
C716	YESCC311	Electrolytic, 680 μF 16WV	
C718	YESCC228	Ceramic, 0.1 μF 16WV	
C719	YESCC308	Electrolytic, 100 μF 16WV	
C770	YESCC317	Ceramic, 0.22 μF 50WV	
C771	YESCC276	Electrolytic, 10 μF 16WV	
C772	YESCC317	Ceramic, 0.22 μF 50WV	
C781	YESCC308	Electrolytic, 100 μF 16WV	
C786	YESCC228	Ceramic, 0.1 μF 16WV	
C787	YESCC307	Electrolytic, 120 μF 10WV	
C788	YESCC228	Ceramic, 0.1 μF 16WV	
C789	YESCC308	Electrolytic, 100 μF 16WV	
C791	YESCC228	Ceramic, 0.1 μF 16WV	
C792	YESCC234	Ceramic, 0.01 μF 50WV	
C795	YESCC313	Electrolytic, 220 μF 10WV	
C796	YESCC313	Electrolytic, 220 μF 10WV	
C797	YESCC234	Ceramic, 0.01 μF 50WV	
C798	YESCC228	Ceramic, 0.1 μF 16WV	
C799	YESCC255	Ceramic, 0.047 μF 50WV	
R793	YESCC317	Ceramic, 0.22 μF 50WV	

Ref. No.	Part No.	Part Name & Description	Remarks
RESISTORs			
J802	YESRG132	Chip, 0 Ω 1/4W	
J803	YESRG132	Chip, 0 Ω 1/4W	
J804	YESRG132	Chip, 0 Ω 1/4W	
J805	YESRG132	Chip, 0 Ω 1/4W	
J806	YESRG132	Chip, 0 Ω 1/4W	
J807	YESRG132	Chip, 0 Ω 1/4W	
J808	YESRG132	Chip, 0 Ω 1/4W	
J810	YESRG132	Chip, 0 Ω 1/4W	
J811	YESRG132	Chip, 0 Ω 1/4W	
J812	YESRG132	Chip, 0 Ω 1/4W	
J813	YESRG132	Chip, 0 Ω 1/4W	
J814	YESRG132	Chip, 0 Ω 1/4W	
J815	YESRG132	Chip, 0 Ω 1/4W	
J816	YESRG132	Chip, 0 Ω 1/4W	
J817	YESRG132	Chip, 0 Ω 1/4W	
J820	YESRG132	Chip, 0 Ω 1/4W	
J821	YESRG132	Chip, 0 Ω 1/4W	
J823	YESRG132	Chip, 0 Ω 1/4W	
J824	YESRG132	Chip, 0 Ω 1/4W	
J825	YESRG132	Chip, 0 Ω 1/4W	
J826	YESRG132	Chip, 0 Ω 1/4W	
J827	YESRG132	Chip, 0 Ω 1/4W	
J829	YESRG132	Chip, 0 Ω 1/4W	
J830	YESRG132	Chip, 0 Ω 1/4W	
J831	YESRG132	Chip, 0 Ω 1/4W	
J832	YESRG132	Chip, 0 Ω 1/4W	
J833	YESRG132	Chip, 0 Ω 1/4W	
J834	YESRG132	Chip, 0 Ω 1/4W	
J835	YESRG132	Chip, 0 Ω 1/4W	
J837	YESRG132	Chip, 0 Ω 1/4W	
J839	YESRG132	Chip, 0 Ω 1/4W	
J840	YESRG132	Chip, 0 Ω 1/4W	
J841	YESRG132	Chip, 0 Ω 1/4W	
J842	YESRG132	Chip, 0 Ω 1/4W	
J843	YESRG132	Chip, 0 Ω 1/4W	
J844	YESRG132	Chip, 0 Ω 1/4W	
J846	YESRG132	Chip, 0 Ω 1/4W	
J847	YESRG132	Chip, 0 Ω 1/4W	
J848	YESRG132	Chip, 0 Ω 1/4W	
J849	YESRG132	Chip, 0 Ω 1/4W	
J850	YESRG132	Chip, 0 Ω 1/4W	
J851	YESRG132	Chip, 0 Ω 1/4W	
J852	YESRG132	Chip, 0 Ω 1/4W	
J853	YESRG132	Chip, 0 Ω 1/4W	
J854	YESRG132	Chip, 0 Ω 1/4W	
J855	YESRG132	Chip, 0 Ω 1/4W	

Ref. No.	Part No.	Part Name & Description	Remarks
J856	YESRG132	Chip, 0 Ω 1/4W	
J890	YESRG132	Chip, 0 Ω 1/4W	
J901	YESRG093	Chip, 0 Ω 1/8W	
J902	YESRG093	Chip, 0 Ω 1/8W	
J903	YESRG093	Chip, 0 Ω 1/8W	
J904	YESRG093	Chip, 0 Ω 1/8W	
J905	YESRG093	Chip, 0 Ω 1/8W	
J906	YESRG093	Chip, 0 Ω 1/8W	
J908	YESRG093	Chip, 0 Ω 1/8W	
J910	YESRG093	Chip, 0 Ω 1/8W	
J911	YESRG093	Chip, 0 Ω 1/8W	
J912	YESRG093	Chip, 0 Ω 1/8W	
J913	YESRG093	Chip, 0 Ω 1/8W	
J914	YESRG093	Chip, 0 Ω 1/8W	
J915	YESRG093	Chip, 0 Ω 1/8W	
J950	YESRG093	Chip, 0 Ω 1/8W	
J951	YESRG093	Chip, 0 Ω 1/8W	
L298	YESRG093	Chip, 0 Ω 1/8W	
L398	YESRG093	Chip, 0 Ω 1/8W	
L61	YESRG093	Chip, 0 Ω 1/8W	
L62	YESRG093	Chip, 0 Ω 1/8W	
R50	YESRG127	Chip, 5.6 Ω 1/8W	
R51	YESRG093	Chip, 0 Ω 1/8W	
R52	YESRG094	Chip, 100 Ω 1/8W	
R53	YESRG107	Chip, 220 Ω 1/8W	
R58	YESRG131	Chip, 8.2k Ω 1/8W	
R59	YESRG097	Chip, 100k Ω 1/8W	
R60	YESRG115	Chip, 33k Ω 1/8W	
R65	YESRG117	Chip, 39k Ω 1/8W	
R201	YESRG134	Chip, 1k Ω 1/4W	
R202	YESRG095	Chip, 1k Ω 1/8W	
R204	YESRG125	Chip, 5.6k Ω 1/8W	
R205	YESRG096	Chip, 10k Ω 1/8W	
R208	YESRG144	Chip, 36k Ω 1/4W	
R225	YESRG095	Chip, 1k Ω 1/8W	
R226	YESRG095	Chip, 1k Ω 1/8W	
R261	YESRG103	Chip, 180 Ω 1/8W	
R262	YESRG096	Chip, 10k Ω 1/8W	
R263	YESRG124	Chip, 560 Ω 1/8W	
R265	YESRG103	Chip, 180 Ω 1/8W	
R266	YESRG096	Chip, 10k Ω 1/8W	
R267	YESRG124	Chip, 560 Ω 1/8W	
R275	YESRG109	Chip, 22k Ω 1/8W	
R301	YESRG134	Chip, 1k Ω 1/4W	
R302	YESRG134	Chip, 1k Ω 1/4W	
R304	YESRG125	Chip, 5.6k Ω 1/8W	
R305	YESRG096	Chip, 10k Ω 1/8W	

Ref. No.	Part No.	Part Name & Description	Remarks
R308	YESRG144	Chip, 36k Ω 1/4W	
R325	YESRG096	Chip, 10k Ω 1/8W	
R326	YESRG096	Chip, 10k Ω 1/8W	
R361	YESRG103	Chip, 180 Ω 1/8W	
R362	YESRG096	Chip, 10k Ω 1/8W	
R363	YESRG124	Chip, 560 Ω 1/8W	
R365	YESRG138	Chip, 180 Ω 1/4W	
R366	YESRG096	Chip, 10k Ω 1/8W	
R367	YESRG124	Chip, 560 Ω 1/8W	
R375	YESRG137	Chip, 12k Ω 1/4W	
R401	YESRG100	Chip, 1.5k Ω 1/8W	
R402	YESRG109	Chip, 22k Ω 1/8W	
R403	YESRG120	Chip, 47k Ω 1/8W	
R408	YESRG148	Chip, 47k Ω 1/4W	
R413	YESRG104	Chip, 1.8k Ω 1/8W	
R414	YESRG124	Chip, 560 Ω 1/8W	
R417	YESRG133	Chip, 10 Ω 1/4W	
R418	YESRG108	Chip, 2.2k Ω 1/8W	
R419	YESRG108	Chip, 2.2k Ω 1/8W	
R420	YESRG108	Chip, 2.2k Ω 1/8W	
R421	YESRG108	Chip, 2.2k Ω 1/8W	
R423	YESRG108	Chip, 2.2k Ω 1/8W	
R424	YESRG141	Chip, 2.2k Ω 1/4W	
R426	YESRG107	Chip, 220 Ω 1/8W	
R510	YESRG093	Chip, 0 Ω 1/8W	
R600	YESRG097	Chip, 100k Ω 1/8W	
R601	YESRG097	Chip, 100k Ω 1/8W	
R603	YESRG134	Chip, 1k Ω 1/4W	
R604	YESRG120	Chip, 47k Ω 1/8W	
R605	YESRG134	Chip, 1k Ω 1/4W	
R608	YESRG152	Chip, 1 Ω 1/4W	
R610	YESRG097	Chip, 100k Ω 1/8W	
R611	YESRG147	Chip, 4.7k Ω 1/4W	
R612	YESRG134	Chip, 1k Ω 1/4W	
R618	YESRG097	Chip, 100k Ω 1/8W	
R619	YESRG134	Chip, 1k Ω 1/4W	
R620	YESRG134	Chip, 1k Ω 1/4W	
R621	YESRG095	Chip, 1k Ω 1/8W	
R622	YESRG095	Chip, 1k Ω 1/8W	
R623	YESRG134	Chip, 1k Ω 1/4W	
R625	YESRG093	Chip, 0 Ω 1/8W	
R627	YESRG097	Chip, 100k Ω 1/8W	
R628	YESRG139	Chip, 180k Ω 1/4W	
R630	YESRG108	Chip, 2.2k Ω 1/8W	
R631	YESRG141	Chip, 2.2k Ω 1/4W	
R632	YESRG093	Chip, 0 Ω 1/8W	
R633	YESRG119	Chip, 4.7k Ω 1/8W	

Ref. No.	Part No.	Part Name & Description	Remarks
R634	YESRG126	Chip, 560k Ω 1/8W	
R638	YESRG095	Chip, 1k Ω 1/8W	
R650	YESRG097	Chip, 100k Ω 1/8W	
R651	YESRG097	Chip, 100k Ω 1/8W	
R652	YESRG136	Chip, 100k Ω 1/4W	
R653	YESRG097	Chip, 100k Ω 1/8W	
R657	YESRG136	Chip, 100k Ω 1/4W	
R660	YESRG154	Chip, 10 Ω 1/8W	
R661	YESRG095	Chip, 1k Ω 1/8W	
R662	YESRG086	Carbon, 47k Ω 1/4W	
R668	YESRG084	Carbon, 1k Ω 1/4W	
R669	YESRG096	Chip, 10k Ω 1/8W	
R672	YESRG095	Chip, 1k Ω 1/8W	
R673	YESRG139	Chip, 180k Ω 1/4W	
R674	YESRG134	Chip, 1k Ω 1/4W	
R676	YESRG084	Carbon, 1k Ω 1/4W	
R678	YESRG095	Chip, 1k Ω 1/8W	
R679	YESRG095	Chip, 1k Ω 1/8W	
R680	YESRG097	Chip, 100k Ω 1/8W	
R681	YESRG095	Chip, 1k Ω 1/8W	
R683	YESRG097	Chip, 100k Ω 1/8W	
R684	YESRG097	Chip, 100k Ω 1/8W	
R685	YESRG095	Chip, 1k Ω 1/8W	
R686	YESRG097	Chip, 100k Ω 1/8W	
R687	YESRG134	Chip, 1k Ω 1/4W	
R690	YESRG085	Carbon, 2.7k Ω 1/4W	
R692	YESRG095	Chip, 1k Ω 1/8W	
R694	YESRG112	Chip, 2.7k Ω 1/8W	
R695	YESRG085	Carbon, 2.7k Ω 1/4W	
R701	YESRG133	Chip, 10 Ω 1/4W	
R702	YESRG095	Chip, 1k Ω 1/8W	
R703	YESRG096	Chip, 10k Ω 1/8W	
R704	YESRG129	Chip, 680k Ω 1/8W	
R705	YESRG115	Chip, 33k Ω 1/8W	
R707	YESRG099	Chip, 12k Ω 1/8W	
R708	YESRG098	Chip, 11k Ω 1/8W	
R709	YESRG148	Chip, 47k Ω 1/4W	
R710	YESRG153	Chip, 820 Ω 1/4W	
R711	YESRG153	Chip, 820 Ω 1/4W	
R711	YESRG140	Chip, 1 Ω 1/4W	
R712	YESRG149	Chip, 560 Ω 1/4W	
R713	YESRG140	Chip, 1 Ω 1/4W	
R714	YESRG053	Carbon, 1k Ω 1/2W	
R715	YESRG090	Chip, 10k Ω 1/8W	
R716	YESRG092	Chip, 3.6k Ω 1/8W	
R717	YESRG091	Chip, 180 Ω 1/8W	
R718	YESRG093	Chip, 0 Ω 1/8W	

Ref. No.	Part No.	Part Name & Description	Remarks
R719	YESRG088	Carbon, 3.3k Ω 1/2W	
R721	YESRG138	Chip, 180 Ω 1/4W	
R732	YESRG109	Chip, 22k Ω 1/8W	
R733	YESRG109	Chip, 22k Ω 1/8W	
R758	YESRG105	Chip, 18k Ω 1/8W	
R770	YESRG087	Carbon, 820 Ω 1/4W	
R781	YESRG145	Chip, 390 Ω 1/4W	
R782	YESRG089	Chip, 0.47 Ω 1W	
R805	YESRG095	Chip, 1k Ω 1/8W	
R806	YESRG123	Chip, 5.1k Ω 1/8W	
R807	YESRG104	Chip, 1.8k Ω 1/8W	
R808	YESRG123	Chip, 5.1k Ω 1/8W	
R809	YESRG123	Chip, 5.1k Ω 1/8W	
R810	YESRG096	Chip, 10k Ω 1/8W	
R816	YESRG097	Chip, 100k Ω 1/8W	
R817	YESRG148	Chip, 47k Ω 1/4W	
R818	YESRG108	Chip, 2.2k Ω 1/8W	
R820	YESRG108	Chip, 2.2k Ω 1/8W	
R822	YESRG134	Chip, 1k Ω 1/4W	
CONNECTORs			
CN251	YESAJ07008	RCA Wire (CD.C-IN)	
CN601	YESAE362	Connector 12P	
CN661	YESAJ07017	Wire Connector 8P	
CN681	YESAE344	Connector 18P	
CN701	YESAE351	Connector 16P	
J1	K2HA104B0010	Jack, RCA	
J11	YESAE343	DIN Jack	
COILs			
L50	YESLQ028	Coil	
L51	G1C150K00011	Coil	
L401	YESLQ017	Coil	
L702	G0A161J00001	Coil	
L709	YESLQ027	Coil	
L710	YESLQ012	Coil	
CRYSTALs			
XL401	YESXL021	Crystal	
XL601	YESXL017	Crystal	
XL602	H0A327200080	Crystal	
POSISTOR			
PH701	YERT7AR4R7MT	Posistor	
SERGE PROTECTOR, VARISTOR			
Z50	YESRTD008	Serge Protector	
Z701	YESRTD009	Varistor	

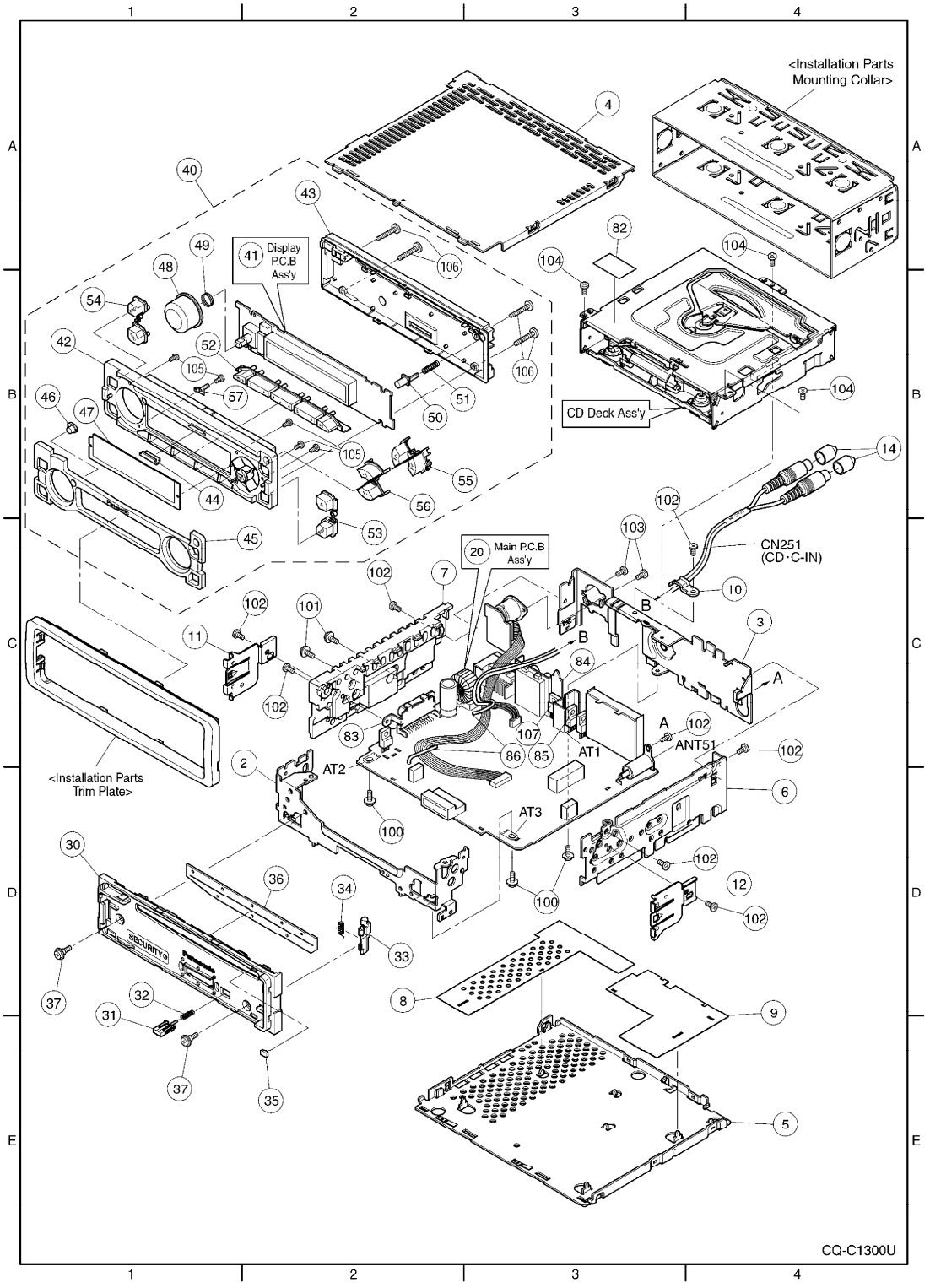
Ref. No.	Part No.	Part Name & Description	Remarks
[7206-05-01] Display Block			
IC's and TRANSISTORs			
IC901	YEAMLC75854T	IC	
IC902	PNA4602MC	IC	
Q901	B1GDCFJJ0002	Transistor	
DIODEs			
D901	YESAD115	Zener Diode	
D902	YESAD115	Zener Diode	
D903	YESAD115	Zener Diode	
D904	YESAD115	Zener Diode	
D905	YESAD115	Zener Diode	
D906	YESAD127	Zener Diode	
D912	B3AFB0000039	LED	
D913	YESAD125	LED	
D914	YESAD125	LED	
D915	YESAD125	LED	
D916	YESAD125	LED	
D917	YESAD125	LED	
D918	YESAD125	LED	
D919	YESAD125	LED	
D920	YESAD125	LED	
D921	YESAD125	LED	
D922	YESAD125	LED	
D925	YESAD125	LED	
D926	YESAD125	LED	
D927	YESAD126	LED	
D928	YESAD126	LED	
D931	YEADRB501VT	Diode	
D932	YESAD125	LED	
CAPACITORs			
C901	YESCC228	Ceramic, 0.1 μF 16WV	
C902	YESCC228	Ceramic, 0.1 μF 16WV	
C903	F1J1H681A025	Ceramic, 680pF 50WV	
C904	YESCC228	Ceramic, 0.1 μF 16WV	
C905	YESCC228	Ceramic, 0.1 μF 16WV	
C906	YESCC233	Ceramic, 0.001 μF 50WV	
C907	YESCC228	Ceramic, 0.1 μF 16WV	
RESISTORs			
R901	YESRG121	Chip, 4.7k Ω 1/8W	
R902	YESRG120	Chip, 47k Ω 1/8W	
R903	YESRG095	Chip, 1k Ω 1/8W	
R904	YESRG121	Chip, 4.7k Ω 1/8W	
R905	YESRG095	Chip, 1k Ω 1/8W	
R906	YESRG095	Chip, 1k Ω 1/8W	
R907	YESRG095	Chip, 1k Ω 1/8W	

Ref. No.	Part No.	Part Name & Description	Remarks
R908	YESRG095	Chip, 1k Ω 1/8W	
R909	YESRG095	Chip, 1k Ω 1/8W	
R910	YESRG096	Chip, 10k Ω 1/8W	
R911	YESRG118	Chip, 470 Ω 1/8W	
R921	YESRG142	Chip, 270 Ω 1/4W	
R922	YESRG149	Chip, 560 Ω 1/4W	
R923	YESRG149	Chip, 560 Ω 1/4W	
R924	YESRG149	Chip, 560 Ω 1/4W	
R925	YESRG149	Chip, 560 Ω 1/4W	
R926	YESRG149	Chip, 560 Ω 1/4W	
R928	YESRG142	Chip, 270 Ω 1/4W	
R929	YESRG149	Chip, 560 Ω 1/4W	
CONNECTOR			
CN901	YESAE361	Connector 12P	
SWITCHes			
SW902	K0H1BA000445	Switch	
SW903	K0H1BA000445	Switch	
SW904	K0H1BA000445	Switch	
SW905	K0H1BA000445	Switch	
SW906	K0H1BA000445	Switch	
SW907	K0H1BA000445	Switch	
SW908	K0H1BA000445	Switch	
SW909	K0H1BA000445	Switch	
SW910	K0H1BA000445	Switch	
SW911	K0H1BA000445	Switch	
SW912	K0H1BA000445	Switch	
SW913	K0H1BA000445	Switch	
SW914	K0H1BA000445	Switch	
SW915	K0H1BA000445	Switch	
SW916	K0H1BA000445	Switch	
SW917	K0H1BA000445	Switch	
VR901	K9AA024A0007	Switch	
LCD			
LCD901	YESXDCM011	LCD	
Accessories			
PRINTING			
	YEFM284144	Operating Instructions	
INSTALLATION PARTs			
	YESAJ01223	Power Connector	
	YESFZ259	Remote Control Unit	
	CR2025/1F	Lithium Battery	⚠

Ref. No.	Part No.	Part Name & Description	Remarks
	YESFZ257	Screw Kit	
	YEFA131839	Removable Face Plate Case	
	YESFX021127	Rear Support Strap	
	YESFX018006	Mounting Collar	
	YESFC05018	Trim Plate	
MECHANICAL PARTS			
MISCELLANEOUS			
ANT51	YM104C700ZA	Antenna Receptacle	
AT1	YESAT01028	Earth Terminal	
AT2	YESAT01028	Earth Terminal	
AT3	YESAT01028	Earth Terminal	
2	YESFA01072	Front Chassis	
3	YESFA08021	Rear Plate	
4	YESFA03053	Top Cover A	
5	YESFA05036	Bottom Cover	
6	YESFA09004	Side Plate	
7	YESFF01082	Heat Sink	
8	YESFV01061	Insulated Sheet L	
9	YESFV01062	Insulated Sheet R	
10	YESFX007024	Cord Clamper	
11	YESFX005133	Plate Spring L	
12	YESFX005134	Plate Spring R	
14	YESFR04010	RCA Cap	
20	YESAP312	Main PCB Ass'y	RTL
30	YESFC02116	Escutcheon	
31	YESFE13160	Push Button	
32	YESFX005151	Push Spring	
33	YESFX999061	Release Hook	
34	YESFX005150	Hook Spring	
35	YESFS01084	Pad	
36	YESFS01085	Dust Felt	
37	YESJS01178	Collar Screw	
40	YESSDF0118	Removable Face Plate Unit	RTL
41	YESAP313	Display PCB Ass'y	RTL
42	YESFC04024	Front Cover	
43	YESFA07009	Rear Cover	
44	YESFX027	CD Indicator	
45	YESFC04025	Escutheon Ass'y	
46	YESFX999059	Sensor Cap	
47	YESFC04026	Panel Sheet	
48	YESFE02020	Vol Knob	
49	YESFX005149	Vol Knob Spring	
50	YESFE13155	Release Button	
51	YESFX005152	Release Spring	
52	YESFE13158	Preset Button	
53	YESFE13156	Eject/Disp Button	
54	YESFE13157	Band/SRC Button	
55	YESFE13159	Tuner Button	
56	YESFE13168	Track Button	
57	YESFX005148	Earth Spring Plate	
82	YESFM01085	Laser Seal	
83	YESFX021129	Power IC Bracket	
84	YESFX021130	RCA Bracket	
85	YESFX014007	Rivet	

Ref. No.	Part No.	Part Name & Description	Remarks
86	YESFX007023	Style Pin	
100	YESJS01160	Cup Screw S Tite 3*6	
101	YESJS01160	Cap Screw 3*6	
102	YESJT03067	Tapping Bind Screw S Tite M3*6	
103	YESJS01166	Screw Bind 3*6	
104	YESJT03066	Tapping Bind Screw S Tite M2.6*5	
105	YESJS01177	Camera Screw 2*4	
106	YESJS01164	P Tite 2*8 Black CR	
107	YESJT03069	Tapping Bind Screw 2.6*8	

13. EXPLODED VIEW (Unit)



14. CD PLAYER PARTS LIST

Notes :

1. Be sure to make your orders of replacement parts according to this list.

2. Important safety notice: Components, identified by ⚠ mark have special characteristics important for safety. When replacing any of

these components, use only manufacturer's specified parts.

3. Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a road map.
4. The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

    - Order intake period is basically six months after the first shipment.

Ref. No.	Part No.	Part Name & Description	Remarks
[3032-14-05] CD Servo Block			
IC's and TRANSISTORs			
IC201	MN6627482WB	IC	
IC202	YESAM163	IC	
IC203	YESAM166	IC	
IC204	M5218AFP	IC	
IC401	YESAM176	IC	
IC402	YESAM224	IC	
IC406	YESAM171	IC	
IC409	YESAM167	IC	
IC411	YESAM178	IC	
Q101	B1BDBC000001	Transistor	
Q201	B1BDBC000001	Transistor	
Q203	YESAN060	Transistor	
CAPACITORs			
C101	YESCC203	Ceramic, 220pF 50WV	
C102	YESCC187	Ceramic, 0.1 μF 25WV	
C103	YESCC187	Ceramic, 0.1 μF 25WV	
C104	YESCC206	Ceramic, 0.047 μF 25WV	
C105	F1H1H2220004	Ceramic, 0.0022 μF 50WV	
C106	YESCC207	Ceramic, 0.001 μF 50WV	
C107	YESCC206	Ceramic, 0.047 μF 25WV	
C108	YESCC204	Ceramic, 330pF 50WV	
C109	YESCC187	Ceramic, 0.1 μF 25WV	
C110	YESCC187	Ceramic, 0.1 μF 25WV	
C111	YESCC299	Ceramic, 0.022 μF 50WV	
C112	YESCC183	Ceramic, 0.0022 μF 50WV	
C113	YESCC208	Ceramic, 0.0015 μF 50WV	
C114	YESCC207	Ceramic, 0.001 μF 50WV	
C115	YESCC187	Ceramic, 0.1 μF 25WV	
C116	YESCC187	Ceramic, 0.1 μF 25WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C121	YESCC187	Ceramic, 0.1 μ F 25WV	
C122	YESCC207	Ceramic, 0.001 μ F 50WV	
C123	YESCC299	Ceramic, 0.022 μ F 50WV	
C124	YESCC187	Ceramic, 0.1 μ F 25WV	
C125	YESCC207	Ceramic, 0.001 μ F 50WV	
C126	YESCC210	Ceramic, 0.1 μ F 16WV	
C127	YESCC207	Ceramic, 0.001 μ F 50WV	
C128	YESCC205	Ceramic, 0.22 μ F 10WV	
C129	YESCC187	Ceramic, 0.1 μ F 25WV	
C130	YESCC207	Ceramic, 0.001 μ F 50WV	
C131	YESCC187	Ceramic, 0.1 μ F 25WV	
C132	YESCC187	Ceramic, 0.1 μ F 25WV	
C135	YESCC187	Ceramic, 0.1 μ F 25WV	
C136	YESCC187	Ceramic, 0.1 μ F 25WV	
C137	YESCC210	Ceramic, 0.1 μ F 16WV	
C138	YESCC210	Ceramic, 0.1 μ F 16WV	
C139	YESCC187	Ceramic, 0.1 μ F 25WV	
C140	YESCC187	Ceramic, 0.1 μ F 25WV	
C141	YESCC187	Ceramic, 0.1 μ F 25WV	
C151	YESCC188	Electrolytic, 10 μ F 16WV	
C152	YESCC213	Electrolytic, 22 μ F 6.3WV	
C153	YESCC213	Electrolytic, 22 μ F 6.3WV	
C154	YESCC215	Electrolytic, 220 μ F 10WV	
C203	YESCC209	Ceramic, 0.0033 μ F 50WV	
C204	YESCC209	Ceramic, 0.0033 μ F 50WV	
C205	YESCC187	Ceramic, 0.1 μ F 25WV	
C207	YESCC187	Ceramic, 0.1 μ F 25WV	
C208	YESCC202	Ceramic, 22pF 50WV	
C251	YESCC215	Electrolytic, 220 μ F 10WV	
C252	YESCC214	Electrolytic, 47 μ F 6.3WV	
C253	YESCC215	Electrolytic, 220 μ F 10WV	
C301	YESCC207	Ceramic, 0.001 μ F 50WV	
C302	YESCC207	Ceramic, 0.001 μ F 50WV	
C311	YESCC207	Ceramic, 0.001 μ F 50WV	
C312	YESCC207	Ceramic, 0.001 μ F 50WV	
C321	YESCC187	Ceramic, 0.1 μ F 25WV	
C356	YESCC213	Electrolytic, 22 μ F 6.3WV	
C357	YESCC214	Electrolytic, 47 μ F 6.3WV	
C358	YESCC213	Electrolytic, 22 μ F 6.3WV	
C359	YESCC216	Electrolytic, 100 μ F 16WV	
C360	YESCC188	Electrolytic, 10 μ F 16WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C401	YESCC187	Ceramic, 0.1 μF 25WV	
C402	YESCC187	Ceramic, 0.1 μF 25WV	
C403	YESCC187	Ceramic, 0.1 μF 25WV	
C404	YESCC187	Ceramic, 0.1 μF 25WV	
C405	YESCC187	Ceramic, 0.1 μF 25WV	
C406	YESCC187	Ceramic, 0.1 μF 25WV	
C407	YESCC187	Ceramic, 0.1 μF 25WV	
C408	YESCC187	Ceramic, 0.1 μF 25WV	
C409	YESCC187	Ceramic, 0.1 μF 25WV	
C410	YESCC187	Ceramic, 0.1 μF 25WV	
C411	YESCC187	Ceramic, 0.1 μF 25WV	
C412	YESCC187	Ceramic, 0.1 μF 25WV	
C413	YESCC187	Ceramic, 0.1 μF 25WV	
C414	YESCC187	Ceramic, 0.1 μF 25WV	
C418	YESCC187	Ceramic, 0.1 μF 25WV	
C426	YESCC187	Ceramic, 0.1 μF 25WV	
C433	YESCC210	Ceramic, 0.1 μF 16WV	
C434	YESCC210	Ceramic, 0.1 μF 16WV	
C435	YESCC187	Ceramic, 0.1 μF 25WV	
C436	YESCC187	Ceramic, 0.1 μF 25WV	
C437	YESCC210	Ceramic, 0.1 μF 16WV	
C452	YESCC188	Electrolytic, 10 μF 16WV	
C463	YESCC214	Electrolytic, 47 μF 6.3WV	
C464	YESCC214	Electrolytic, 47 μF 6.3WV	
RESISTORs			
L302	ERJ6GEY0R00V	Chip, 0 Ω 1/8W	
L303	ERJ6GEY0R00V	Chip, 0 Ω 1/8W	
L304	ERJ6GEY0R00V	Chip, 0 Ω 1/8W	
L305	ERJ6GEY0R00V	Chip, 0 Ω 1/8W	
JP101	ERJ8GEY0R00V	Chip, 0 Ω 1/4W	
R101	ERJ3GEYJ4R7V	Chip, 4.7 Ω 1/10W	
R103	YESRG067	Chip, 1.5k Ω 1/10W	
R104	YESRG077	Chip, 470 Ω 1/10W	
R105	YESRG074	Chip, 2.7k Ω 1/10W	
R106	YESRG025	Chip, 10k Ω 1/10W	
R107	YESRG074	Chip, 2.7k Ω 1/10W	
R108	YESRG076	Chip, 390k Ω 1/10W	
R109	YESRG069	Chip, 150k Ω 1/10W	
R110	YESRG025	Chip, 10k Ω 1/10W	
R111	YESRG070	Chip, 18k Ω 1/10W	
R113	YESRG066	Chip, 120k Ω 1/10W	
R114	ERJ3GEY0R00V	Chip, 0 Ω 1/10W	

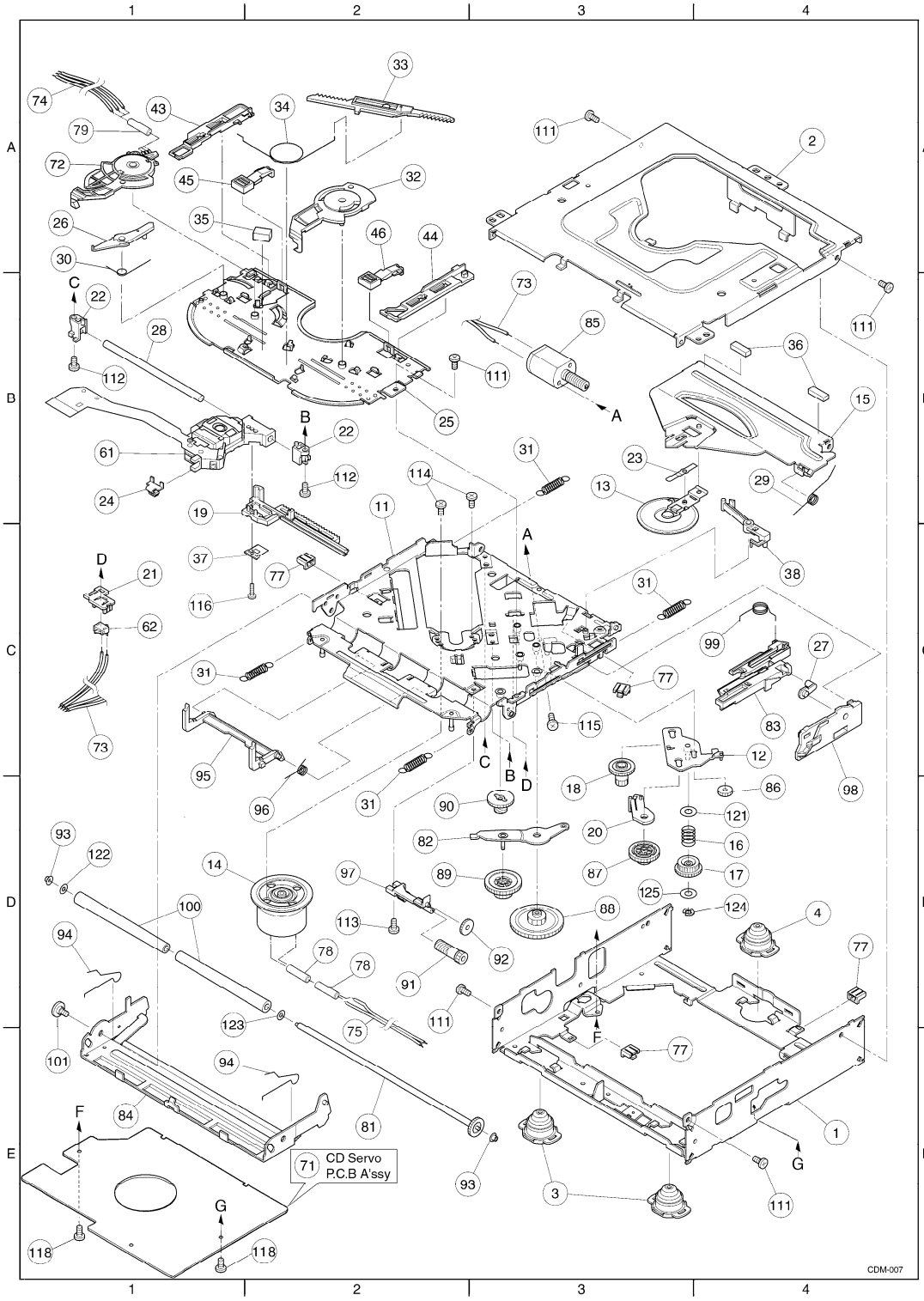
Ref. No.	Part No.	Part Name & Description	Remarks
R115	YESRG022	Chip, 2.2k Ω 1/10W	
R116	YESRG022	Chip, 2.2k Ω 1/10W	
R117	ERJ3GEY0R00V	Chip, 0 Ω 1/10W	
R118	YESRG068	Chip, 15k Ω 1/10W	
R119	YESRG021	Chip, 1k Ω 1/10W	
R120	ERJ3GEY0R00V	Chip, 0 Ω 1/10W	
R121	YESRG072	Chip, 220k Ω 1/10W	
R122	YESRG081	Chip, 56k Ω 1/10W	
R123	YESRG066	Chip, 120k Ω 1/10W	
R125	YESRG077	Chip, 470 Ω 1/10W	
R126	YESRG074	Chip, 2.7k Ω 1/10W	
R127	YESRG072	Chip, 220k Ω 1/10W	
R128	YESRG020	Chip, 220 Ω 1/10W	
R129	YESRG082	Chip, 6.8k Ω 1/10W	
R130	YESRG065	Chip, 1M Ω 1/10W	
R131	YESRG022	Chip, 2.2k Ω 1/10W	
R133	YESRG022	Chip, 2.2k Ω 1/10W	
R136	YESRG022	Chip, 2.2k Ω 1/10W	
R137	YESRG021	Chip, 1k Ω 1/10W	
R138	YESRG021	Chip, 1k Ω 1/10W	
R139	YESRG021	Chip, 1k Ω 1/10W	
R140	YESRG021	Chip, 1k Ω 1/10W	
R141	YESRG021	Chip, 1k Ω 1/10W	
R142	YESRG021	Chip, 1k Ω 1/10W	
R143	YESRG071	Chip, 2M Ω 1/10W	
R201	YESRG082	Chip, 6.8k Ω 1/10W	
R202	ERJ3GEY0R00V	Chip, 0 Ω 1/10W	
R204	YESRG021	Chip, 1k Ω 1/10W	
R205	ERJ3GEY0R00V	Chip, 0 Ω 1/10W	
R206	YESRG070	Chip, 18k Ω 1/10W	
R207	YESRG078	Chip, 5.1k Ω 1/10W	
R208	ERJ3GEY0R00V	Chip, 0 Ω 1/10W	
R209	YESRG078	Chip, 5.1k Ω 1/10W	
R210	ERJ3GEY0R00V	Chip, 0 Ω 1/10W	
R211	YESRG026	Chip, 27k Ω 1/10W	
R212	YESRG028	Chip, 47k Ω 1/10W	
R301	YESRG023	Chip, 3.9k Ω 1/10W	
R302	YESRG023	Chip, 3.9k Ω 1/10W	
R303	YESRG068	Chip, 15k Ω 1/10W	
R304	YESRG025	Chip, 10k Ω 1/10W	
R305	YESRG020	Chip, 220 Ω 1/10W	
R311	YESRG023	Chip, 3.9k Ω 1/10W	
R312	YESRG023	Chip, 3.9k Ω 1/10W	
R313	YESRG068	Chip, 15k Ω 1/10W	
R314	YESRG025	Chip, 10k Ω 1/10W	
R315	YESRG020	Chip, 220 Ω 1/10W	
R322	YESRG025	Chip, 10k Ω 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R323	YESRG025	Chip, 10k Ω 1/10W	
R324	YESRG029	Chip, 100k Ω 1/10W	
R325	YESRG029	Chip, 100k Ω 1/10W	
R326	YESRG064	Chip, 100 Ω 1/10W	
R327	YESRG025	Chip, 10k Ω 1/10W	
R328	YESRG025	Chip, 10k Ω 1/10W	
R329	YESRG021	Chip, 1k Ω 1/10W	
R401	YESRG025	Chip, 10k Ω 1/10W	
R402	YESRG025	Chip, 10k Ω 1/10W	
R403	YESRG025	Chip, 10k Ω 1/10W	
R404	YESRG025	Chip, 10k Ω 1/10W	
R408	YESRG024	Chip, 4.7k Ω 1/10W	
R409	YESRG024	Chip, 4.7k Ω 1/10W	
R414	YESRG028	Chip, 47k Ω 1/10W	
R415	YESRG028	Chip, 47k Ω 1/10W	
R416	YESRG028	Chip, 47k Ω 1/10W	
R425	YESRG064	Chip, 100 Ω 1/10W	
R429	YESRG020	Chip, 220 Ω 1/10W	
R430	YESRG080	Chip, 560 Ω 1/10W	
R431	YESRG024	Chip, 4.7k Ω 1/10W	
R432	YESRG025	Chip, 10k Ω 1/10W	
R434	YESRG029	Chip, 100k Ω 1/10W	
R435	YESRG024	Chip, 4.7k Ω 1/10W	
R478	YESRG079	Chip, 56 Ω 1/10W	
R480	YESRG079	Chip, 56 Ω 1/10W	
R481	YESRG024	Chip, 4.7k Ω 1/10W	
R482	YESRG022	Chip, 2.2k Ω 1/10W	
R483	YESRG022	Chip, 2.2k Ω 1/10W	
CONNECTORs			
CN101	YESAE345	Connector, 18P	
CN102	YESAE350	Connector, 16P	
COILs			
L401	YESLQ014	Coil	
L402	YESLQ014	Coil	
L403	YESLQ014	Coil	
L301	YESLQ011	Coil	
R428	YESLQ025	Inductor	
CRYSTAL			
X401	YESXL018	Crystal	
RESITOR NETWORKs			
RA401	YESXA003	Resistor Network, 56 ohms * 4	
RA402	YESXA003	Resistor Network, 56 ohms * 4	
RA403	YESXA003	Resistor Network, 56 ohms * 4	

Ref. No.	Part No.	Part Name & Description	Remarks
RA405	YESXA003	Resistor Network, 56 ohms * 4	
RA406	YESXA003	Resistor Network, 56 ohms * 4	
RA407	YESXA003	Resistor Network, 56 ohms * 4	
RA408	YESXA003	Resistor Network, 56 ohms * 4	
RA409	YESXA003	Resistor Network, 56 ohms * 4	
RA410	YESXA003	Resistor Network, 56 ohms * 4	
RA413	YESXA003	Resistor Network, 56 ohms * 4	
RA412	YESXA002	Resistor Network, 100 ohms * 4	
RA414	YESXA002	Resistor Network, 100 ohms * 4	
MECHANICAL PARTS			
MISCELLANEOUS			
1	YESFX046136	Frame	
2	YESFX046137	Top Cover	
3	YERFS04003	Damper F	
4	YERFS04004	Damper R	
11	YESFX046138	Chassis Rivet Ass'y	
12	YERFX046001	Change Plate Rivet Ass'y	
13	YERFX007001	Clamper Ass'y	
14	YESAK01041	Spindle Motor Ass'y	
15	YERFX046002	Clamper Arm	
16	YERFX005001	Change Gear Spring	
17	YERFX03001	Change Gear 2	
18	YERFX03002	Feed Gear	
19	YERFX03003	Feed Rack	
20	YERFX046003	Changer Lock Lever	
21	YERFW04001	Feed Switch Holder	
22	YERFW04002	Pick-up Shaft Holder	
23	YERFX005002	Clamper Sub Spring	
24	YERFW04003	FD Sub Holder	
25	YESFX046139	Top Plate	
26	YERFX046004	Select Lock Arm	
27	YERFX046006	Slide Hook	
28	YERFW01001	Pick-up Shaft	
29	YERFX005003	Clamper Arm Spring	
30	YERFX005004	Select Lock Arm Spring	
31	YERFX005013	Suspension Spring	
32	YESFX046140	Select Arm R	
33	YERFX003004	Link Plate	
34	YESFX005137	Link Plate Spring	
35	YERFS01001	Cushion F	
36	YERFS01002	Cushion R	
37	YERFX005014	Feed Spring Plate	
38	YERFX046005	Trigger Arm	
43	YERFX046008	Select Plate L	
44	YERFX046009	Select Plate R	
45	YERFX046010	Select Piece R	
46	YERFX046011	Select Piece L	
61	YESSZCDM002	Optical Pick-up Ass'y	
62	YERAS0001	Detection Switch	
71	YESAP304	Servo PCB Ass'y	RTL
72	YERAS0002	Mode Switch	
73	YESAJ07014	Loding Motor Wire	
74	YESAJ07015	Mode Switch Wire	
75	YESAJ07016	Spindle Motor Wire	
77	YERFX999001	Wire Clamper M	

Ref. No.	Part No.	Part Name & Description	Remarks
78	YESFX024021	Wire Tube Spindle Motor	
79	YESFX024022	Wire Tube Mode Switch	
81	YERFX03005	Roller Shaft Ass'y	
82	YERFX046012	Loading Gear Plate Rivet Ass'y	
83	YERFX046013	Loading Plate Ass'y	
84	YESFX046173	Lock Arm Rivet Ass'y	
85	YESAK01040	Loading/Feed Motor Ass'y	
86	YERFX03006	Loading Gear 1	
87	YERFX03007	Loading Gear 2	
88	YERFX03008	Loading Gear 3	
89	YERFX03009	Loading Gear 4	
90	YERFX03010	Loading Gear 5	
91	YERFX03011	Loading Gear 6	
92	YERFX03012	Loading Gear 7	
93	YERFW04004	Roller Guide	
94	YERFX005007	Roller Guide Spring	
95	YERFX046015	Disc Stopper Arm	
96	YERFX005008	Disc Stop Arm Spring	
97	YERFX046016	LD Gear Bracket	
98	YESFX046174	L Slide Plate	
99	YERFX005009	Loading Plate Spring	
100	YESFX046150	Loading Roller	
101	YESJS01175	Collar Screw	
111	YERJT01001	Tapping Screw 2*3	
112	YERJT01002	Tapping Screw 2*4	
113	YEJT03117	Tapping Bind Screw 2*4	
114	YERJS01002	Camera Screw 1.7*1.8	
115	YERJS01003	Camera Screw 2*2	
116	YERJS01004	Camera Tapping Screw 1.7*5	
118	YESJS01148	Screw 2*4	
121	YERJW01001	P Washer 3.5*8*0.3	
122	YERJW01002	HL Washer 1.85*5*0.13	
123	YERJW01003	Lumilar Washer 3.1*6*0.1	
124	YEJE01028	E Ring S 1.5	
125	YERJW01005	P Washer 2.1*4*0.13	

15. EXPLODED VIEW (CD Deck)



16. WIRING DIAGRAM

16.1. Main Block (Top View)

16.2. Main Block (Bottom View)

16.3. Display Block

16.4. CD Servo Block (Top View)

16.5. CD Servo Block (Bottom View)

17. SCHEMATIC DIAGRAM

17.1. Main Block

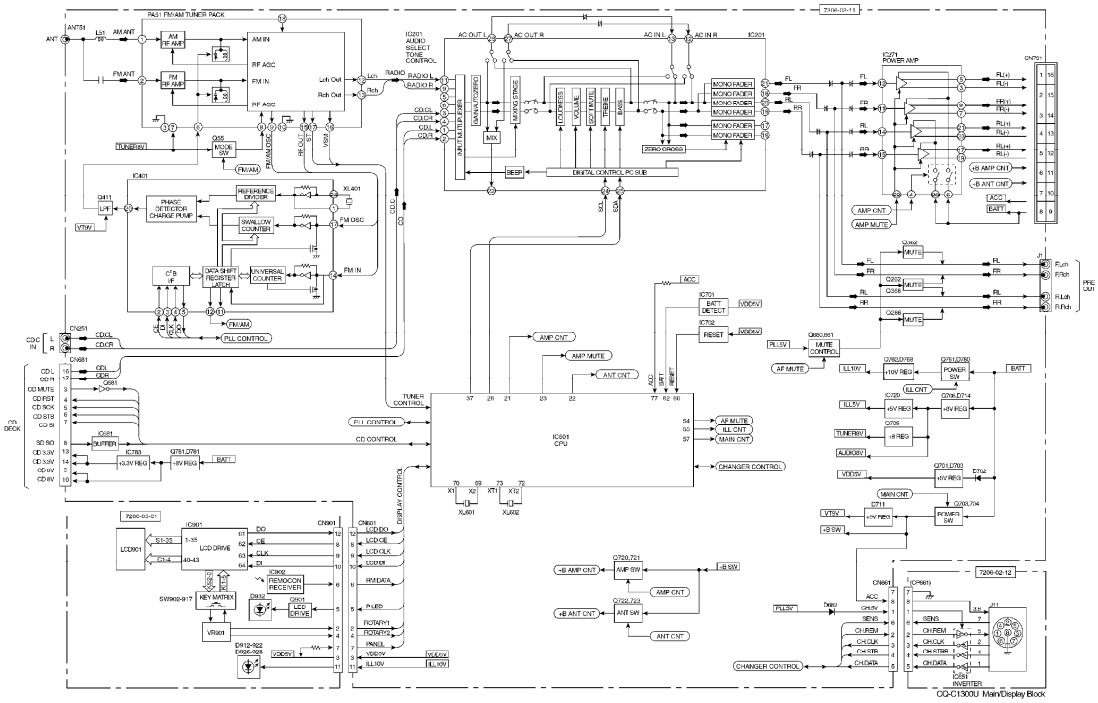
17.2. Display Block

17.3. CD Servo Block-1

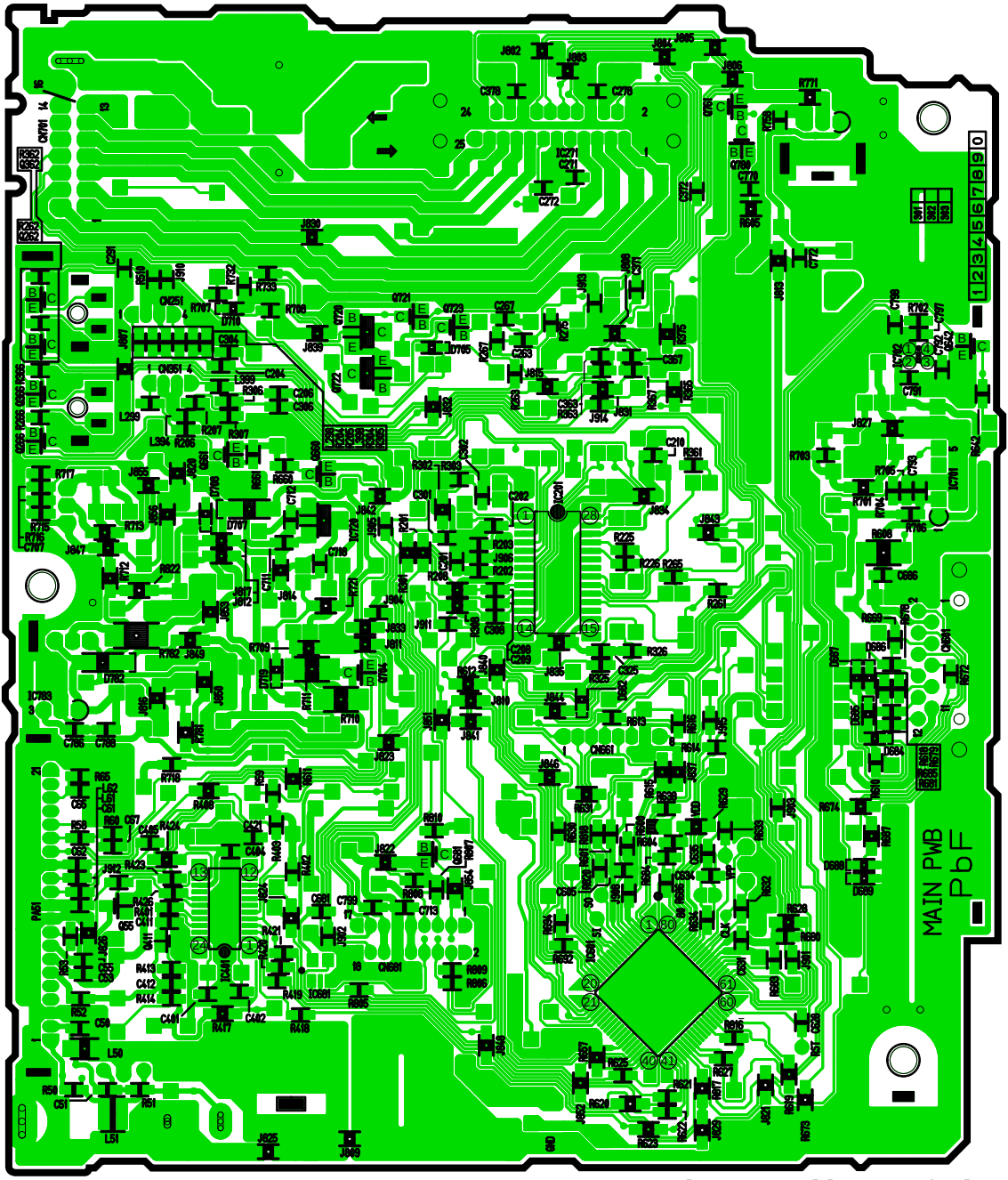
17.4. CD Servo Block-2

18. BLOCK DIAGRAM

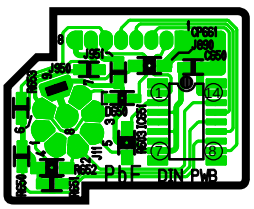
18.1. Main Block



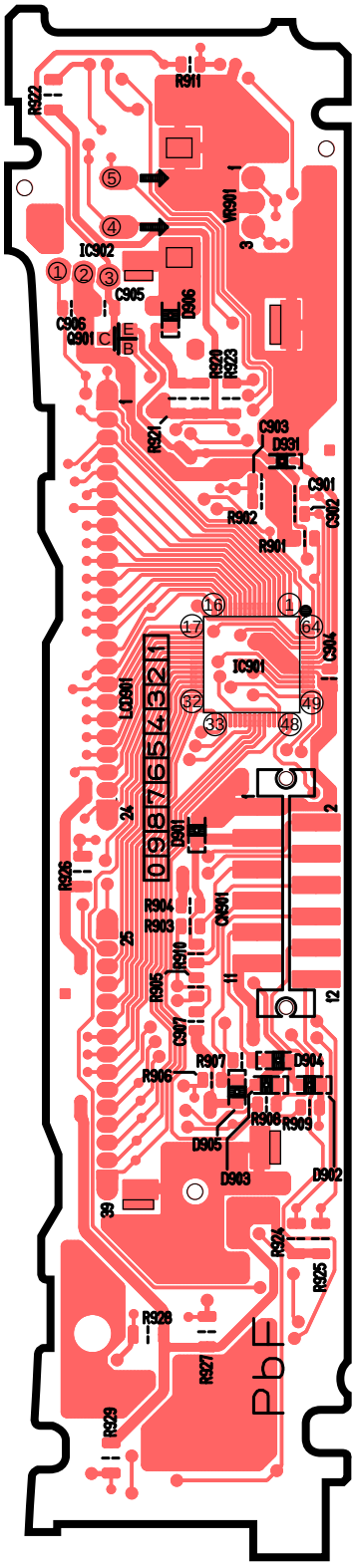
18.2. CD Servo Block



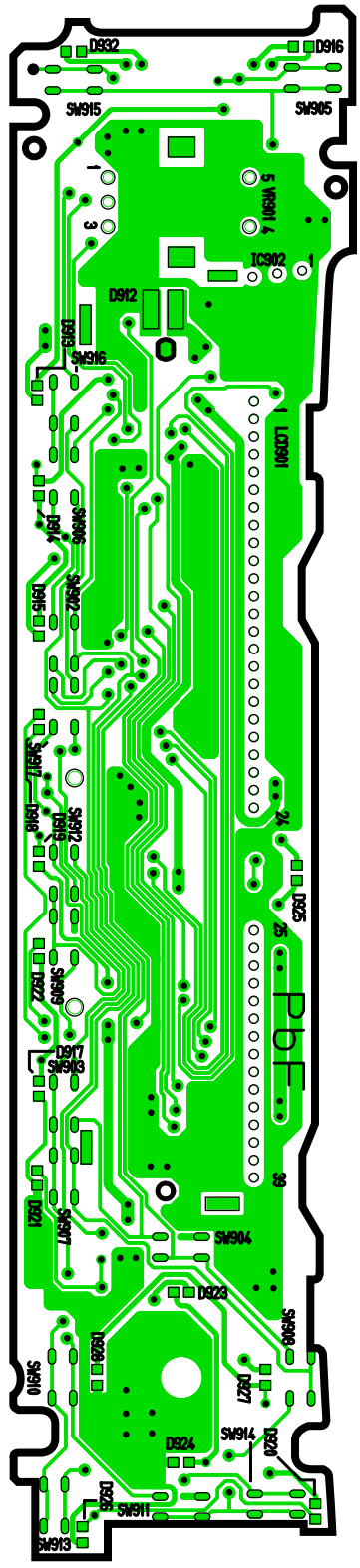
[7206-02-11] [Bottom View]



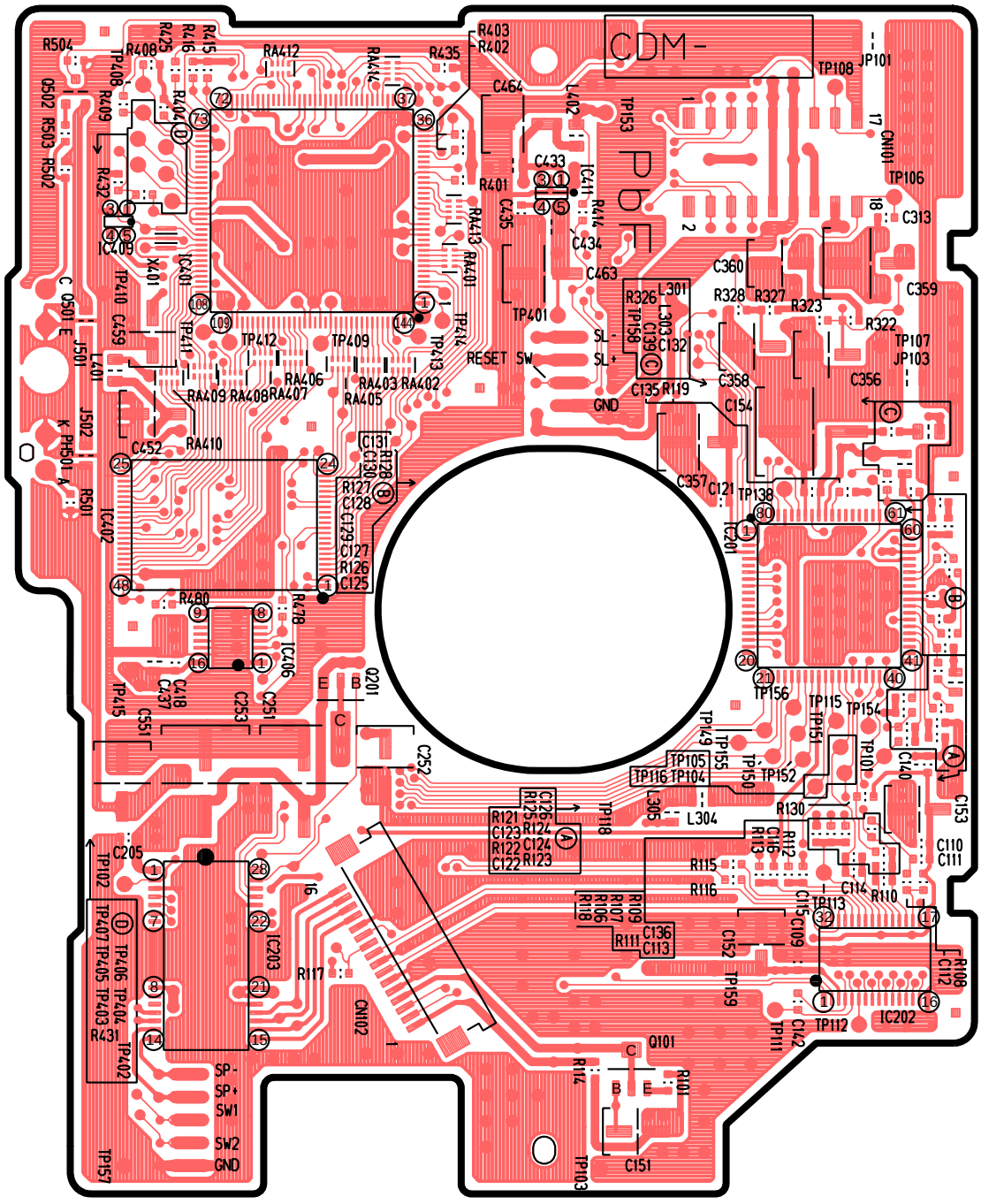
[7206-02-12]
[Bottom View]



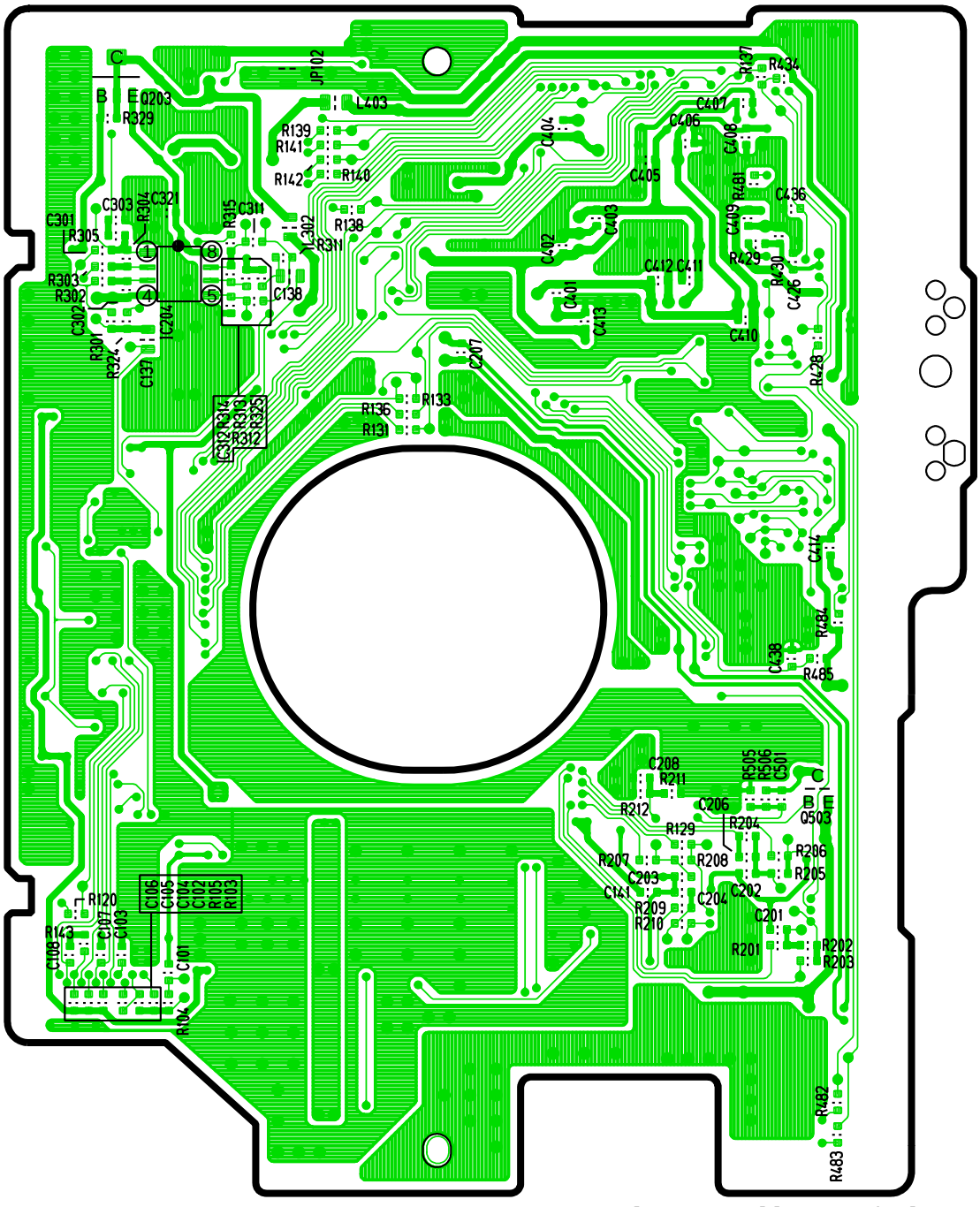
[7206-05-01] [Top View]



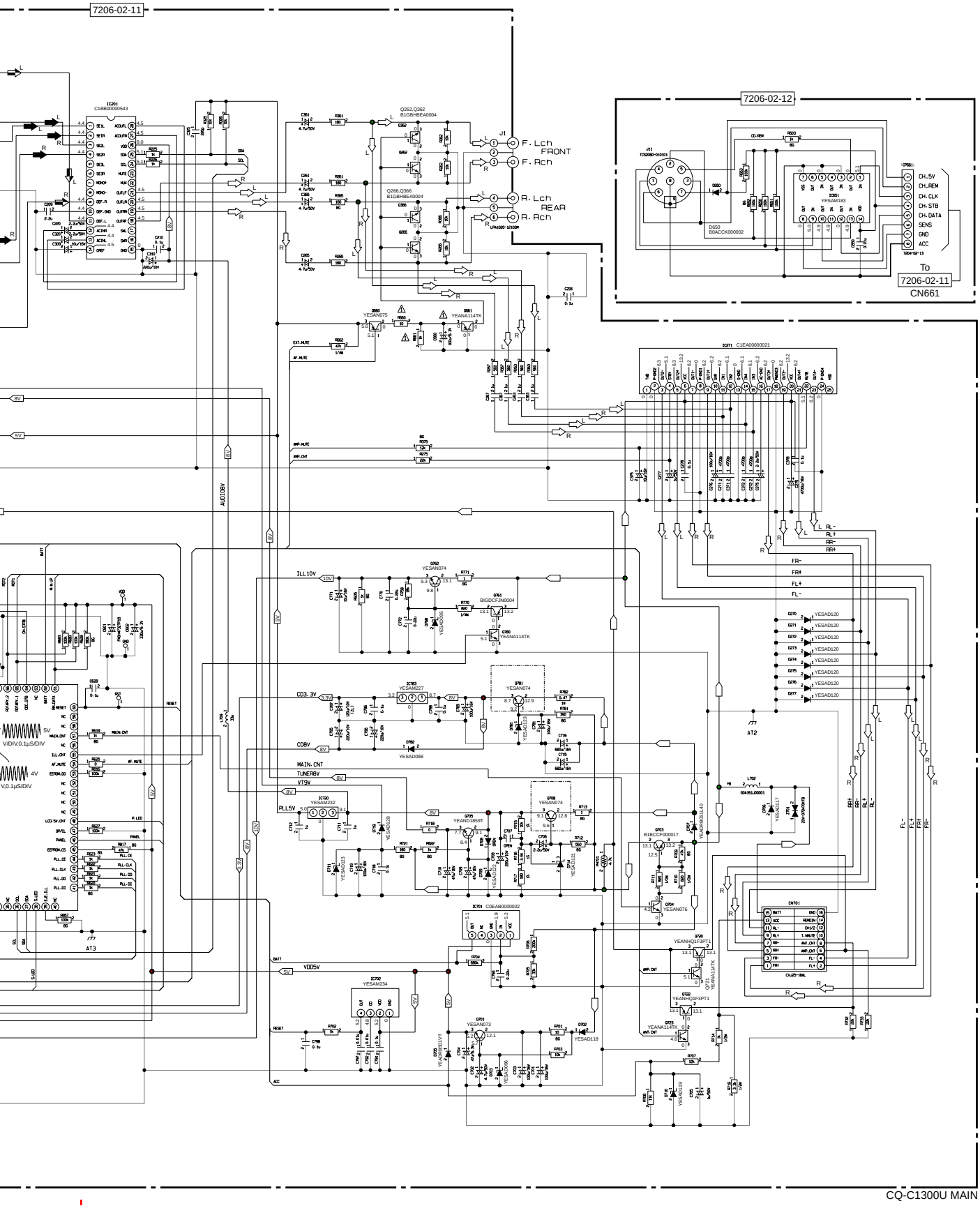
[7206-05-01] [Bottom View]



[3032-14-05] [Top View]

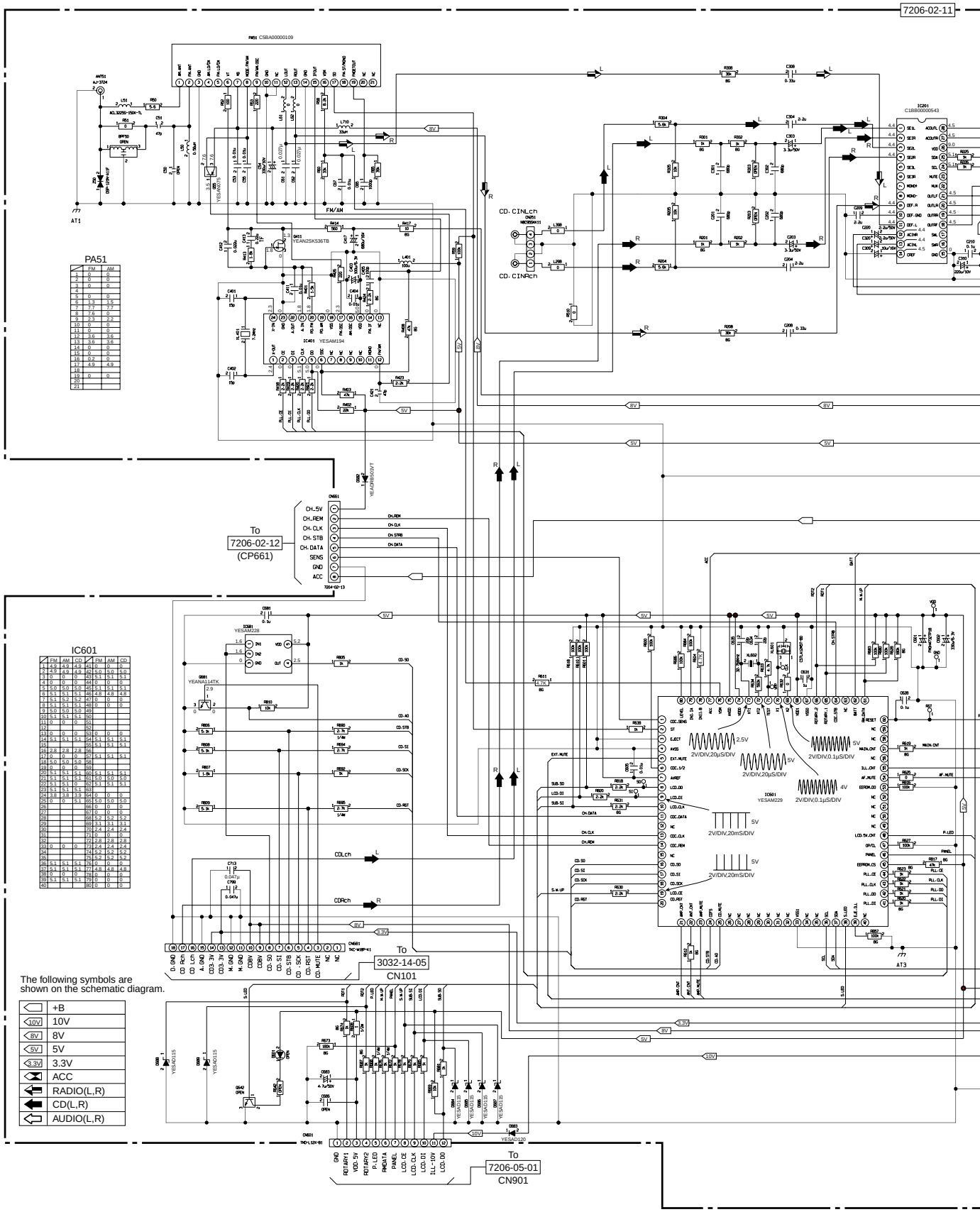


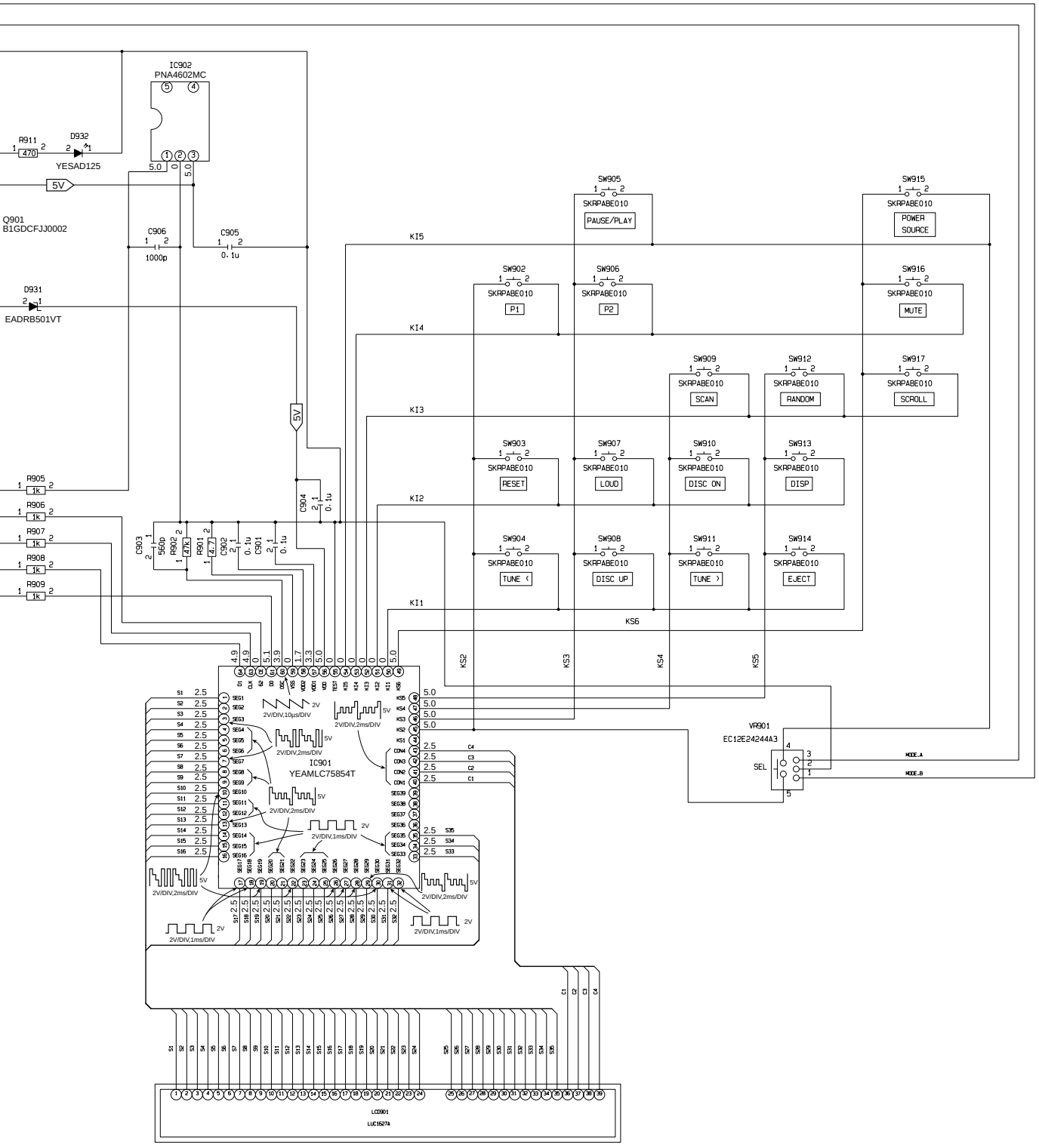
[3032-14-05] [Bottom View]


7206-02-11
7206-02-12
F. Lch
FRONT
F. Rch
R. Lch
REAR
R. Rch
To
7206-02-11
CN661
CH. 5V
CH. REM
CH. CLK
CH. STB
CH. DATA
SENS
GND
ACC
MAIN. CNT
TUNER8V
VT9V
VDD5V
ILL 10V
CD3. 3V
CD8V
PLL 5V
RESET
AT2
AT3
CQ-C1300U MAIN

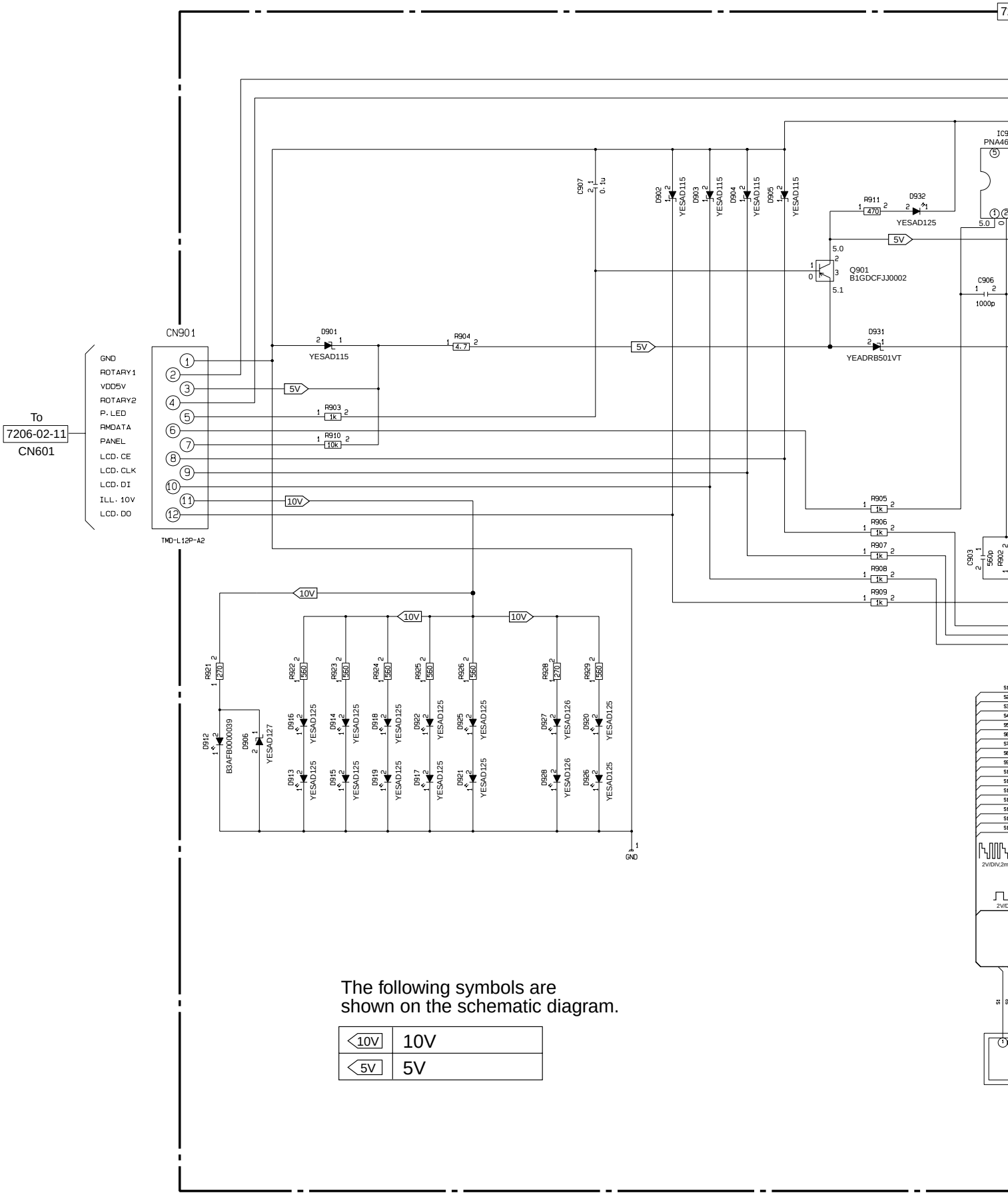
17 SCHEMATIC DIAGRAM

17.1. Main Block



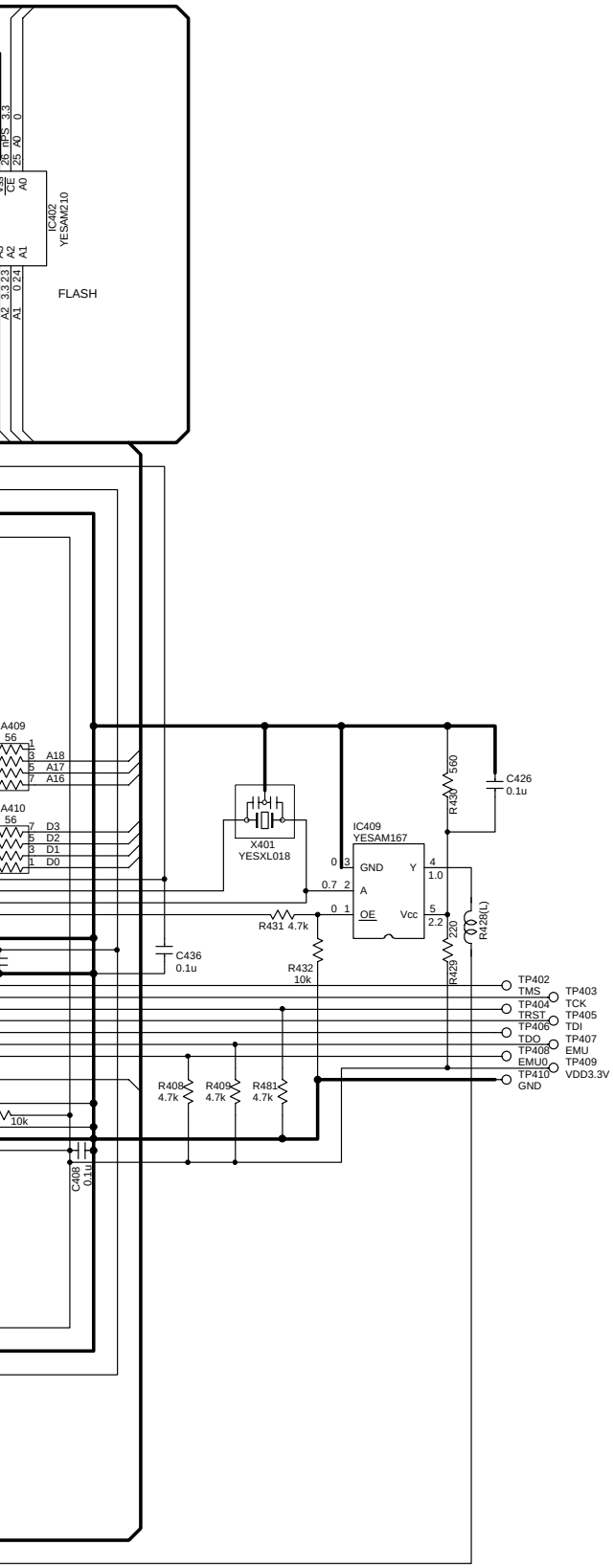

IC902
PNA4602MC
R911
470
D932
YESAD125
5V
Q901
B1GDCFJJ0002
C906
1000p
C905
0.1u
D931
EADRB501VT
SW905
SKRPABE010
PAUSE/PLAY
SW915
SKRPABE010
POWER
SOURCE
KI5
SW902
SKRPABE010
P1
SW906
SKRPABE010
P2
SW916
SKRPABE010
MUTE
KI4
SW909
SKRPABE010
SCAN
SW912
SKRPABE010
RANDOM
SW917
SKRPABE010
SCROLL
KI3
SW903
SKRPABE010
RESET
SW907
SKRPABE010
LOUD
SW910
SKRPABE010
DISC ON
SW913
SKRPABE010
DISP
KI2
SW904
SKRPABE010
TUNE ‹
SW908
SKRPABE010
DISC UP
SW911
SKRPABE010
TUNE ›
SW914
SKRPABE010
EJECT
KI1
KS6
KS2
KS3
KS4
KS5
R905
R906
R907
R908
R909
1k
C903
560p
R902
47k
R901
4.7
C902
0.1u
C901
0.1u
C904
0.1u
IC901
YEAMLC75854T
VR901
EC12E24244A3
SEL
MODE_A
MODE_B
LCD901
LUC1627A

17.2. Display Block

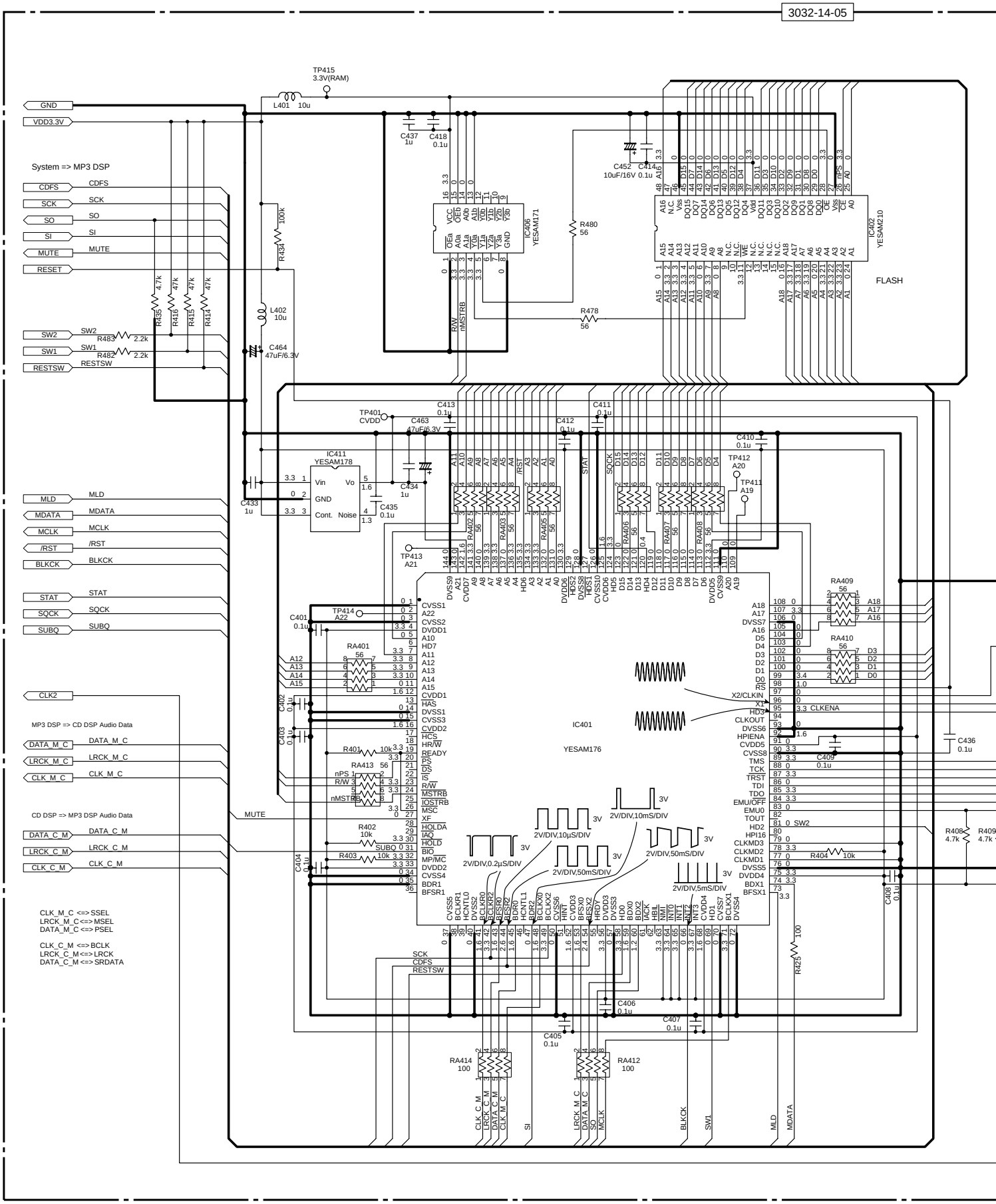


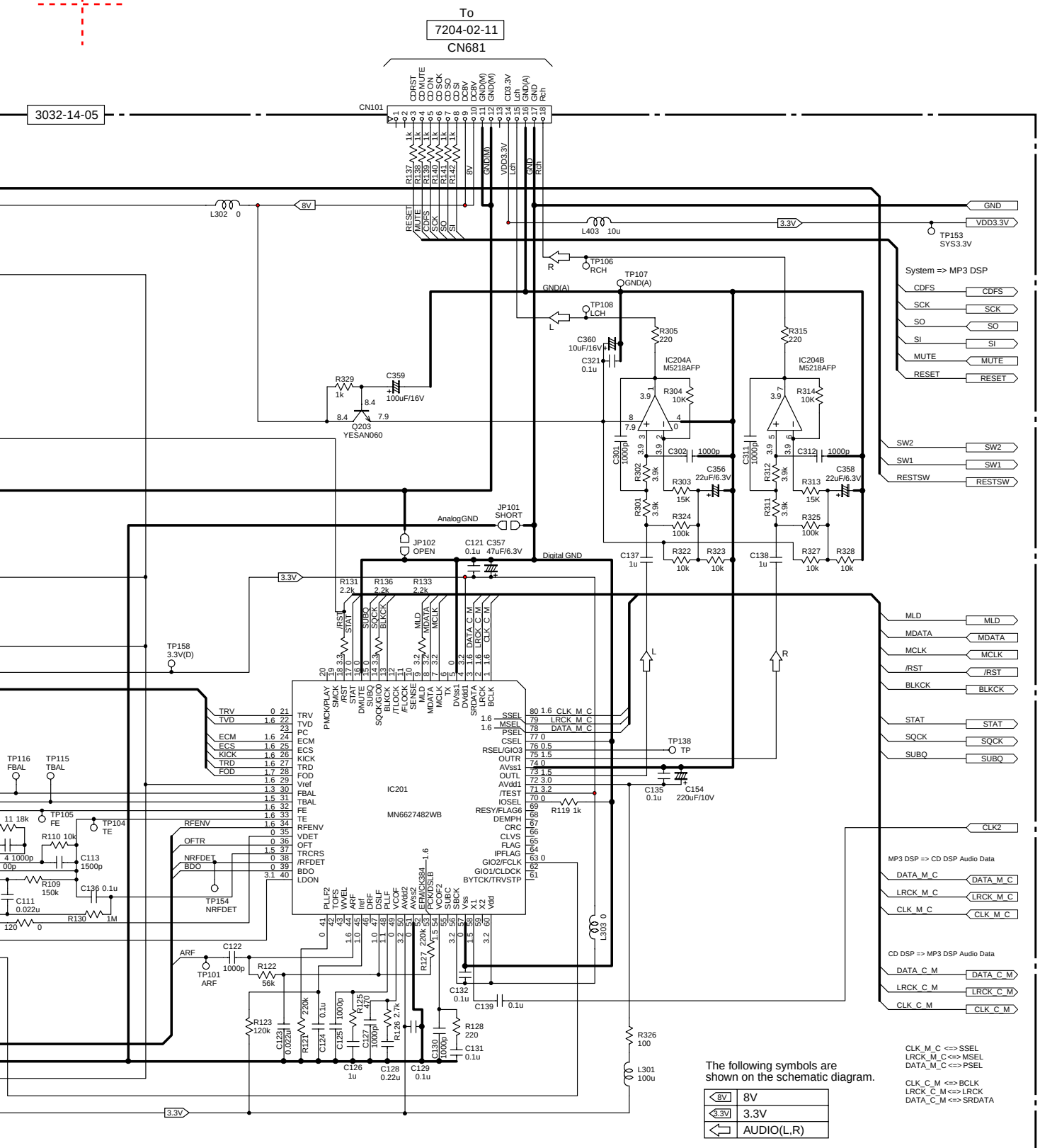
The following symbols are shown on the schematic diagram.

10V	10V
5V	5V

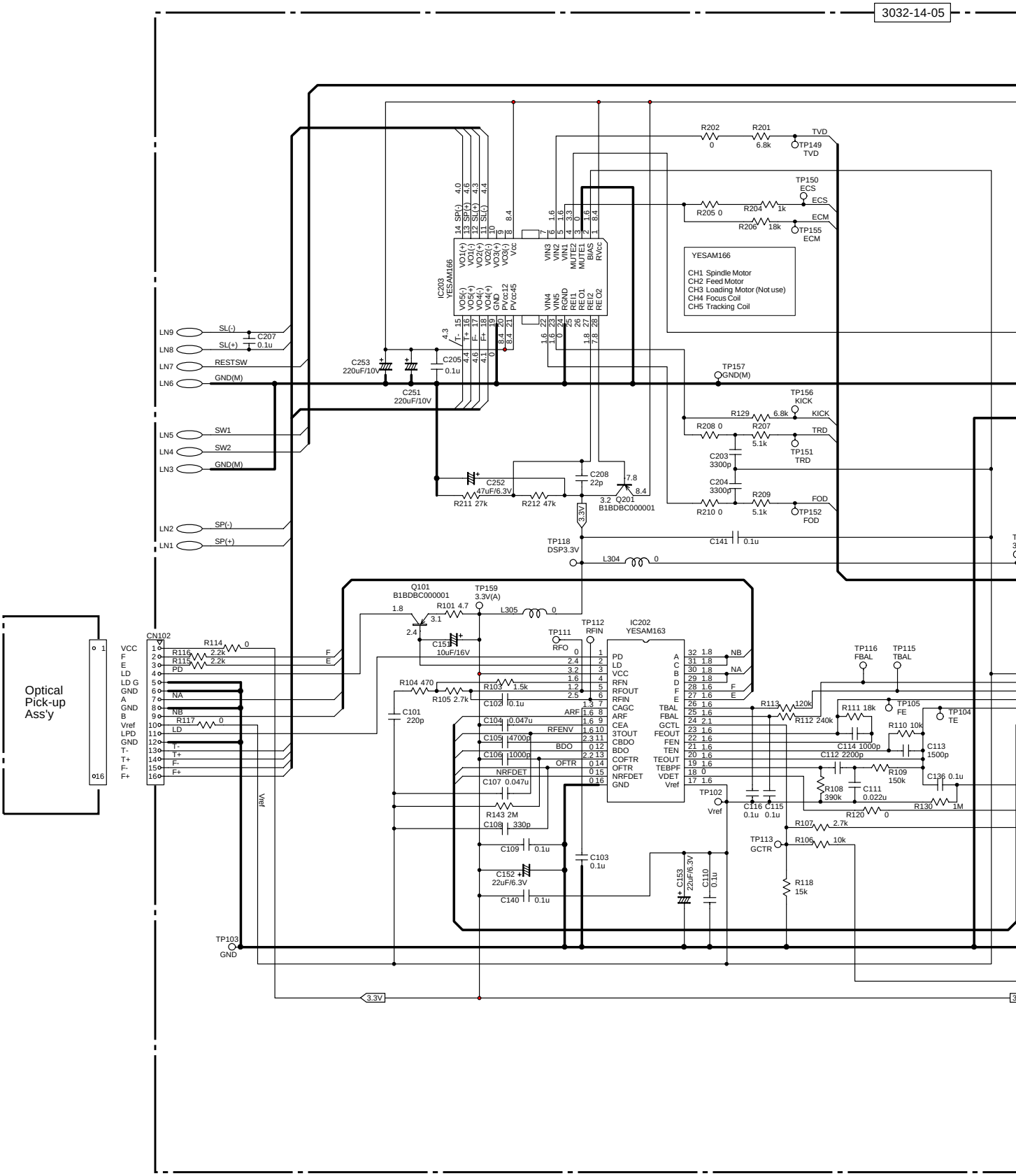

5
FLASH
IC402
YESAM210
A409
56
A18
A17
A16
A410
56
D3
D2
D1
D0
X401
YESXL018
IC409
YESAM167
GND
A
OE
Y
Vcc
R430 560
C426
0.1u
R431 4.7k
R432
10k
C436
0.1u
R428(L)
220
R429
TP402
TMS
TP403
TCK
TP404
TRST
TP405
TDI
TP406
TDO
TP407
EMU
TP408
EMU0
TP409
VDD3.3V
TP410
GND
R408
4.7k
R409
4.7k
R481
4.7k
10k
C408
0.1u

17.4. CD Servo Block-2




To
7204-02-11
CN681
3032-14-05
CN101
CDRST
CD MUTE
CD ON
CD SCK
CD SO
CD SI
DC8V
GND(M)
GND(M)
CD3.3V
Lch
GND(A)
Rch
R137 1k
R138 1k
R139 1k
R140 1k
R141 1k
R142 1k
8V
GND(M)
VDD3.3V
Lch
GND
Rch
RESET
MUTE
CDFS
SCK
SO
SI
L302 0
8V
L403 10u
3.3V
GND
VDD3.3V
TP153
SYS3.3V
System => MP3 DSP
CDFS
SCK
SO
SI
MUTE
RESET
TP106
RCH
TP107
GND(A)
TP108
LCH
R
L
GND(A)
C360
10uF/16V
C321
0.1u
R305
220
R315
220
IC204A
M5218AFP
IC204B
M5218AFP
R304
10K
R314
10K
R329
1k
C359
100uF/16V
Q203
YESAN060
C301
1000p
R302
3.9k
C302
1000p
C311
1000p
R312
3.9k
C312
1000p
C356
22uF/6.3V
C358
22uF/6.3V
R303
15K
R313
15K
R301
3.9k
R324
100k
R311
3.9k
R325
100k
C137
1u
R322
10k
R323
10k
C138
1u
R327
10k
R328
10k
SW2
SW1
RESTSW
JP101
SHORT
AnalogGND
JP102
OPEN
C121
0.1u
C357
47uF/6.3V
Digital GND
3.3V
R131
2.2k
R136
2.2k
R133
2.2k
/RST
STAT
SUBQ
SQCK
BLKCK
MLD
MDATA
MCLK
DATA_C_M
LRCK_C_M
CLK_C_M
MLD
MDATA
MCLK
/RST
BLKCK
STAT
SQCK
SUBQ
TP158
3.3V(D)
IC201
MN6627482WB
TRV
TVD
PC
ECM
ECS
KICK
TRD
FOD
Vref
FBAL
TBAL
FE
TE
RFENV
VDET
OFT
TRCRS
/RFDET
BDO
LDON
P/MCK/PLAY
SMCK
/RST
STAT
DMUTE
SUBQ
SQCK/GIO0
BLKCK
/LOCK
/FLOCK
SENSE
MLD
MDATA
MCLK
TX
DVss1
DVdd1
SRDATA
LRCK
BCLK
SSEL
MSEL
PSEL
CSEL
RSEL/GIO3
OUTR
AVss1
OUTL
AVdd1
/TEST
IOSEL
RESY/FLAG6
DEMPH
CRC
CLVS
FLAG
IPFLAG
GIO2/FCLK
GIO1/CLDCK
BYTCK/TRVSTP
PLLF2
TOFS
WVEL
ARF
Iref
DRF
DSLF
PLLF
VCOK
AVdd2
AVss2
EFMCK384
PCK/DSLB
VCOF2
SUBC
SBCK
Vss
X1
X2
Vdd
CLK_M_C
LRCK_M_C
DATA_M_C
TP116
FBAL
TP115
TBAL
TP105
FE
TP104
TE
11 18k
R110 10k
4 1000p
00p
C113
1500p
R109
150k
C111
0.022u
C136 0.1u
R130 1M
120
0
RFENV
OFTR
NRFDET
BDO
TP154
NRFDET
ARF
TP101
ARF
C122
1000p
R122
56k
R123
120k
C123
0.022u
R121
220k
C124
0.1u
C125
1000p
R125
470
C127
1000p
R126
2.7k
C126
1u
C128
0.22u
C129
0.1u
R127
220k
C130
1000p
R128
220
C131
0.1u
C132
0.1u
C139
0.1u
L303 0
R326
100
L301
100u
TP138
TP
C135
0.1u
C154
220uF/10V
R119 1k
CLK2
MP3 DSP => CD DSP Audio Data
DATA_M_C
LRCK_M_C
CLK_M_C
CD DSP => MP3 DSP Audio Data
DATA_C_M
LRCK_C_M
CLK_C_M
CLK_M_C <=> SSEL
LRCK_M_C <=> MSEL
DATA_M_C <=> PSEL
CLK_C_M <=> BCLK
LRCK_C_M <=> LRCK
DATA_C_M <=> SRDATA
The following symbols are shown on the schematic diagram.
8V
8V
3.3V
3.3V
AUDIO(L,R)

17.3. CD Servo Block-1



7206-02-11

7206-02-12

PA51 CSBA00000109

PA51

	FM	AM
1	0	0
2	0	0
3	0	0
4		
5	0	0
6	1.3	1.5
7	7.7	7.7
8	7.6	0
9	2.3	2.2
10	0	0
11	0	0
12	3.6	3.6
13	3.6	3.6
14	0	0
15	0	0
16	0.2	0
17	4.9	4.9
18		
19	0	0
20		
21		

IC601

	FM	AM	CD	FM	AM	CD
1	4.9	4.9	4.9	41	0	0
2	4.9	4.9	4.9	42	5.0	5.0
3	0	0	0	43	5.1	5.1
4	0	0	0	44	0	0
5	5.0	5.0	5.0	45	5.1	5.1
6	5.1	5.1	5.1	46	4.8	4.8
7	5.1	5.2	5.2	47	0	0
8	5.1	5.1	5.1	48	0	0
9	5.0	5.0	5.0	49		
10	5.1	5.1	5.1	50		
11	0	0	0	51		
12				52		
13	0	0	0	53	0	0
14	5.1	5.1	5.1	54	5.1	5.1
15				55	5.1	5.1
16	2.8	2.8	2.8	56		
17	0	0	0	57	5.1	5.1
18	5.0	5.0	5.0	58		
19	0	0	0	59		
20	5.1	5.1	5.1	60	5.1	5.1
21	5.1	5.1	5.1	61	5.0	5.0
22	5.1	5.1	0	62	5.1	5.1
23	5.1	5.1	5.1	63		
24	3.8	3.8	3.9	64	0	0
25	0	0	5.1	65	5.0	5.0
26				66	0	0
27				67	0	0
28				68	5.2	5.2
29				69	3.1	3.1
30				70	2.4	2.4
31				71	0	0
32				72	2.8	2.8
33	0	0	0	73	2.4	2.4
34				74	5.2	5.2
35				75	5.2	5.2
36	5.1	5.1	5.1	76	0	0
37	5.1	5.1	5.1	77	4.8	4.8
38	0	0	0	78	0	0
39	5.1	5.1	5.1	79	0	0
40				80	0	0

The following symbols are shown on the schematic diagram.

+B	
10V	10V
8V	8V
5V	5V
3.3V	3.3V
ACC	
RADIO(L,R)	
CD(L,R)	
AUDIO(L,R)	

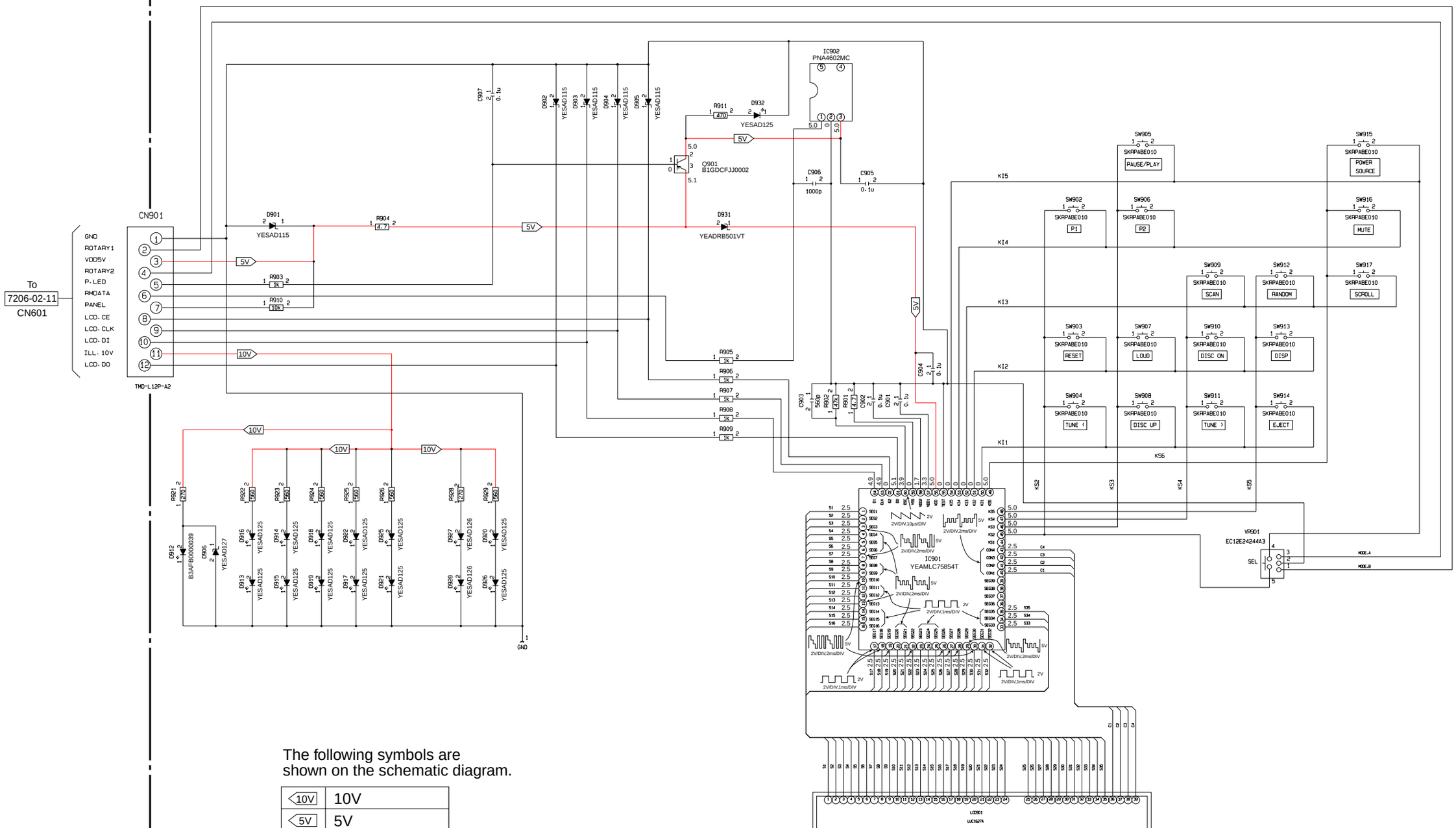
To 7206-02-12 (CP661)

To 3032-14-05 CN101

To 7206-05-01 CN901

To 7206-02-11 CN661

CQ-C1300U MAIN



The following symbols are shown on the schematic diagram.

10V	10V
5V	5V

TP415
3.3V(RAM)
L401 10u
GND
VDD3.3V
C437 1u
C418 0.1u
C452 10uF/16V
C414 0.1u
IC406 YESAM171
IC402 YESAM210
FLASH
R480 56
R478 56
R434 100k
L402 10u
C464 47uF/6.3V
R435 4.7k
R416 47k
R415 47k
R414 47k
System => MP3 DSP
CDFS
SCK
SO
SI
MUTE
RESET
SW2
SW1
RESTSW
R483 2.2k
R482 2.2k
C413 0.1u
C411 0.1u
C412 0.1u
C410 0.1u
TP401
CVDD
C463 47uF/6.3V
IC411
YESAM178
Vin
Vo
GND
Cont.
Noise
C433 1u
C434 1u
C435 0.1u
TP412
A20
TP411
A19
TP413
A21
MLD
MDATA
MCLK
/RST
BLKCK
STAT
SQCK
SUBQ
TP414
A22
C401 0.1u
C402 0.1u
C403 0.1u
C404 0.1u
RA401 56
RA413 56
R401 10k
R402 10k
R403 10k
SUBQ
nPS
R/W
nMSTRB
MUTE
CLK2
MP3 DSP => CD DSP Audio Data
DATA_M_C
LRCK_M_C
CLK_M_C
CD DSP => MP3 DSP Audio Data
DATA_C_M
LRCK_C_M
CLK_C_M
CLK_M_C <=> SSEL
LRCK_M_C <=> MSEL
DATA_M_C <=> PSEL
CLK_C_M <=> BCLK
LRCK_C_M <=> LRCK
DATA_C_M <=> SRDATA
IC401
YESAM176
X2/CLKIN
X1
HD3
CLKOUT
HPIENA
CVDD5
CVSS8
TMS
TCK
TRST
TDI
TDO
EMU/OFF
EMU0
TOUT
HD2
HPI16
CLKMD3
CLKMD2
CLKMD1
DVSS5
DVDD4
BDX1
BFSX1
RA409 56
RA410 56
X401
YESXL018
IC409
YESAM167
R431 4.7k
R432 10k
R430 560
R429 220
R428(L)
C426 0.1u
C436 0.1u
C409 0.1u
C408 0.1u
C406 0.1u
C407 0.1u
C405 0.1u
R404 10k
R408 4.7k
R409 4.7k
R481 4.7k
R425 100
RA414 100
RA412 100
TP402 TMS
TP403 TCK
TP404 TRST
TP405 TDI
TP406 TDO
TP407 EMU
TP408 EMU0
TP409 VDD3.3V
TP410 GND
2V/DIV,10μS/DIV
2V/DIV,10mS/DIV
2V/DIV,0.2μS/DIV
2V/DIV,50mS/DIV
2V/DIV,50mS/DIV
2V/DIV,5mS/DIV
3V

To
7204-02-11
CN681

3032-14-05

CN101

CDRST CDMUTE CDDATA CDSCK CDSO CDSI DC5V DC5V GND(M) GND(M) CD3.3V Lch GNDA GND Rch

R137 1k R138 1k R139 1k R140 1k R141 1k R142 1k

8V VDD3.3V Lch GND Rch GND(M)

RESET MUTE CDFS SCK SO SI

L302 0 8V

L403 10u 3.3V

TP153 SYS3.3V

GND VDD3.3V

System => MP3 DSP

CDFS SCK SO SI MUTE RESET

SW2 SW1 RESTSW

MLD MDATA MCLK /RST BLKCK

STAT SQCK SUBQ

CLK2

MP3 DSP => CD DSP Audio Data

DATA_M_C LRCK_M_C CLK_M_C

CD DSP => MP3 DSP Audio Data

DATA_C_M LRCK_C_M CLK_C_M

TP106 RCH

TP107 GND(A)

TP108 LCH

C360 10uF/16V C321 0.1u

R305 220 R315 220

IC204A M5218AFP IC204B M5218AFP

R304 10K R314 10K

C301 1000p C302 1000p C311 1000p C312 1000p

R302 3.9k R303 15K R312 3.9k R313 15K

C356 22uF/6.3V C358 22uF/6.3V

R301 3.9k R311 3.9k

R324 100k R325 100k

R322 10k R323 10k R327 10k R328 10k

C137 1u C138 1u

JP101 SHORT AnalogGND

JP102 OPEN

C121 0.1u C357 47uF/6.3V Digital GND

R329 1k C359 100uF/16V

Q203 YESAN060

IC203 YESAM166

CH1 Spindle Motor
CH2 Feed Motor
CH3 Loading Motor (Not use)
CH4 Focus Coil
CH5 Tracking Coil

R202 0 R201 6.8k TVD TP149 TVD

TP150 ECS R204 1k R205 0 ECS

R206 18k ECM TP155 ECM

TP157 GND(M)

TP156 KICK R129 6.8k KICK

R208 0 R207 5.1k TRD TP151 TRD

C203 3300p C204 3300p

R209 5.1k FOD TP152 FOD R210 0

C253 220uF/10V C251 220uF/10V C205 0.1u

C252 47uF/6.3V R211 27k R212 47k C208 22p

Q201 B1BDBC000001

C141 0.1u

TP118 DSP3.3V L304 0

TP158 3.3V(D)

3.3V

LN9 SL(-) C207 0.1u
LN8 SL(+)
LN7 RESTSW
LN6 GND(M)
LN5 SW1
LN4 SW2
LN3 GND(M)
LN2 SP(-)
LN1 SP(+)

R131 2.2k R136 2.2k R133 2.2k

/RST STAT DMUTE SUBQ SQCK BLKCK MLD MDATA MCLK DATA_C_M LRCK_C_M CLK_C_M

IC201 MN6627482WB

TRV TVD PC ECM ECS KICK TRD FOD Vref FBAL TBAL FE TE RFENV VDET OFT TRCRS /RFDET BDO LDON

PMCK/PLAY SMCK /RST STAT DMUTE SUBQ SQCK/GOOD BLKCK /TLOCK /FLOCK SENSE MLD MDATA MCLK TX DVss1 DVdd1 SRDATA LRCK BCLK

SSEL MSEL PSEL CSEL RSEL/GIO3 OUTR AVss1 OUTL AVdd1 /TEST IOSEL RESY/FLAG6 DEMPH CRC CLVS FLAG IPFLAG GIO2/FCLK GIO1/CLDCK BYTCK/TRVSTP

PLLF2 TOFS WVEL ARF Iref DRF PLLF VCOF AVdd2 AVss2 EFMCK384 VCOF2 SUBC SBCK Vss X1 X2 Vdd

R127 220k R326 100 L301 100u L303 0

TP138 TP C135 0.1u C154 220uF/10V

R119 1k

TP116 FBAL TP115 TBAL

TP105 FE TP104 TE

R113 120k R112 240k R111 18k R110 10k

C114 1000p C112 2200p C113 1500p

R109 150k R108 390k C111 0.022u C136 0.1u R130 1M

TP154 NRFDET

TP102 Vref C116 0.1u C115 0.1u R120 0

R107 2.7k TP113 GCTR R106 10k R118 15k

C103 0.1u C153 22uF/6.3V C110 0.1u

C152 22uF/6.3V C140 0.1u

TP103 GND

ARF C122 1000p TP101 ARF R122 56k

R123 120k C123 0.022u R121 220k C124 0.1u C125 1000p R125 470 R126 2.7k C127 1000p C126 1u C128 0.22u C129 0.1u C130 1000p C131 0.1u R128 220 C132 0.1u C139 0.1u

CN102

Optical Pick-up Ass'y

VCC F E LD LD G GND A GND B Vref LPD GND T- T+ F- F+

R114 0 R116 2.2k R115 2.2k PD NA NB R117 0 LD

Q101 B1BDBC000001 R101 4.7 TP159 3.3V(A) L305 0

C151 10uF/16V

TP111 RFO TP112 RFIN

IC202 YESAM163

PD LD VCC RFN RFOUT RFIN CAGC ARF CEA 3TOUT CBDO BDO COFTR OFTR NRFDET GND

TBAL FBAL GCTL FEOUT FEN TEN TEOUT TEBPF VDET Vref

R104 470 R105 2.7k R103 1.5k C102 0.1u C101 220p

C104 0.047u C105 4700p C106 1000p C107 0.047u R143 2M C108 330p C109 0.1u

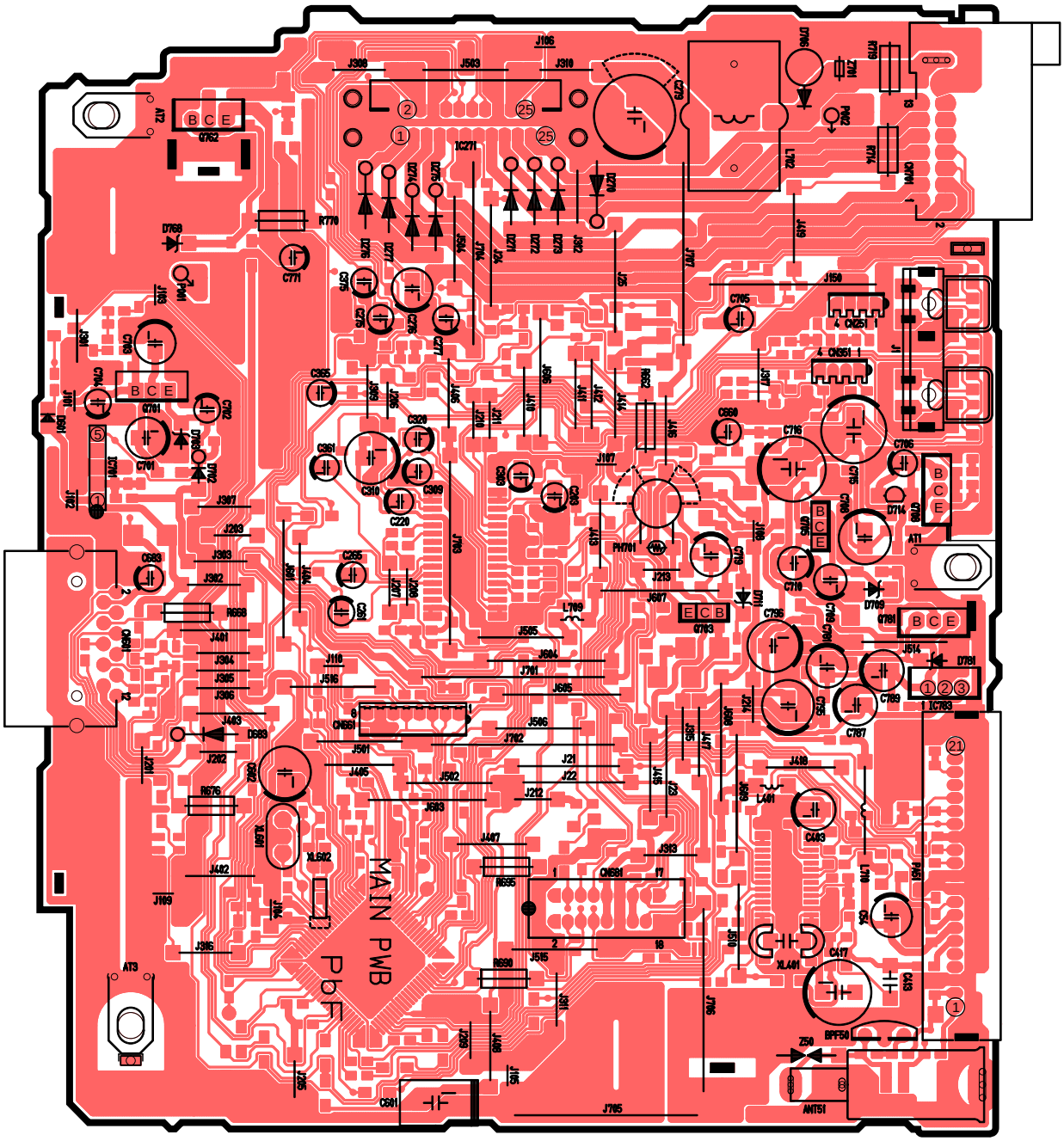
ARF RFENV BDO OFTR NRFDET

The following symbols are shown on the schematic diagram.

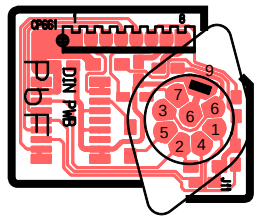
8V	8V
3.3V	3.3V
	AUDIO(L,R)

CLK_M_C <=> SSEL
LRCK_M_C <=> MSEL
DATA_M_C <=> PSEL

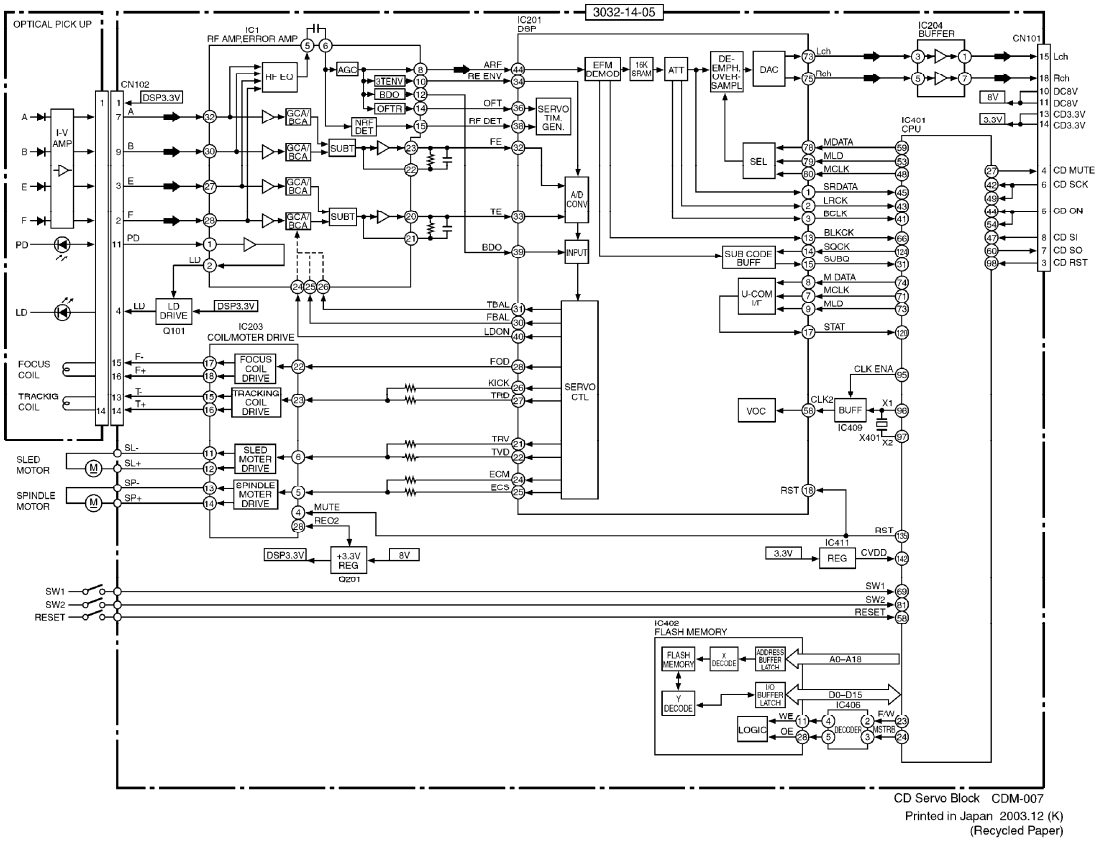
CLK_C_M <=> BCLK
LRCK_C_M <=> LRCK
DATA_C_M <=> SRDATA



[7206-02-11] [Top View]



[7206-02-12]
[Top View]



19. SCHEMATIC DIAGRAM for Printing with Letter Size

19.1. Main Block (Left Side)

19.2. Main Block (Right Side)

19.3. Display Block (Left Side)

19.4. Display Block (Right Side)

19.5. CD Servo Block-1 (Left Side)

19.6. CD Servo Block-1 (Right Side)

19.7. CD Servo Block-2 (Left Side)

19.8. CD Servo Block-2 (Right Side)